# Appendix B (Pages B1-B137)

Revised 3/1/99

Revised 6/1/99 Added levels in Task 1 (JMW)

Revised 9/22/99 Revised listing of primary skills. Task 1: Replaced some sentences in list of stimuli, deleted others. Task 2: Deleted some words from list of stimuli, added a few new words. Task 3: Deleted some words from list of stimuli. Task 4: Replaced all 2 syllable words with new compound words, deleted some 3 & 4 syllable words from list of stimuli. Task 5: Deleted some words from list of stimuli. Will need to consider limiting words to normal stress patterns or using nonsense words...will wait to make decision based on field testing. Changed heading for Task 5. (JMW)

# $TOKEN = \rightarrow JC$

Player:

(Current Player)

Game:

The Rap-A-Taps Rock On

<u>Primary Skills</u>: Auditory Attention, Discrimination, Short Term Memory, Sequential Memory, Pattern Recognition, Temporal Ordering; Phonological Segmentation and Sequencing; Sight Word Recognition

ACTIVITY 1: Tap out words or syllables. 8/10 correct within round of play.

ACTIVITY 2: Discriminate syllable stress and stress patterns in a same-different discrimination task. 100% correct on 4 same trials and 83% on 6 different trials within round of play. ACTIVITY 3: Replicate syllable patterns. 3/2 adaptive training.

Programming notes: Allow max of 15 seconds for response but accept correct answer after x seconds (same as we did in Penguin).

STEP 1 (5 tasks; 32 levels of play)

TASK 1: SEGMENTING SENTENCES INTO WORDS (12)

<u>Learning Objective</u>: The student will segment 4-6 word sentences into words. Sentences will consist of one syllable rhyming words, one syllable non-rhyming words, one & two syllable rhyming words or one & two syllable non-rhyming words. Auditory feedback will or will not be provided during response. Printed words will or will not be displayed during response. Activity Module 1: 8/10 correct within round of play

| <u>Task(1)</u>                             | Auditory Feedback | Printed Words | <u># Trials</u> |
|--|-------------------|---------------|-----------------|
| Cuml. Score Segment; 1 syllable, rhyming % | yes               | n             | o               |
| Segment; 1 syllable, rhyming %             | yes               | у             | es              |
| Segment; 1 syllable, rhyming %             | no                | yes           |                 |
| Segment; 1 syllable, non-rhyr %            | ming yes          | n             | 0               |

| Segment; 1 syllable, non-rhyming yes %   |     | yes |
|--|-----|-----|
| Segment; 1 syllable, non-rhyming no      | yes |     |
| Segment; 1-2 syllable, rhyming yes %     |     | no  |
| Segment; 1-2 syllable, rhyming yes %     |     | yes |
| Segment; 1-2 syllable, rhyming no        | yes |     |
| Segment; 1-2 syllable, non-rhyming yes % |     | no  |
| Segment; 1-2 syllable, non-rhyming yes % |     | yes |
| Segment; 1-2 syllable, non-rhyming no    | yes | -   |

#### TASK 2: SEGMENTING WORDS INTO SYLLABLES (3)

<u>Learning Objective</u>: The student will segment 1-4 syllable words into syllables. Auditory feedback will or will not be provided during response. Printed syllables will or will not be displayed during response.

Activity Module 1: 8/10 correct within round of play

| Task(2)       | Auditory Feedback | Printed Syllables | # Trials | <u>Cuml.</u> |
|---------------|-------------------|-------------------|----------|--------------|
| Score         |                   |                   |          |              |
| Segment words | yes               | no                |          |              |
| %             |                   | •                 |          |              |
| Segment words | yes               | yes               |          |              |
| %             |                   |                   |          |              |
| Segment words | no                | yes yes           |          |              |
| %             |                   |                   |          |              |

# TASK 3: DISCRIMINATING SYLLABLE STRESS: SINGLE SYLLABLES (2)

<u>Learning Objective</u>: The student will discriminate single syllable words as having same or different syllable stress when the words are auditorily presented with an inter-stimulus interval of 1.0 seconds. Visual cues will or will not be displayed to facilitate performance. Activity Module 2: 100% correct on 4 same trials and 83% on 6 different trials within round of play.

| <u>Task (3)</u>              | # Syllables | Visual Cues | # Trials | Cuml. |
|------------------------------|-------------|-------------|----------|-------|
| Score                        |             |             |          |       |
| Discriminate syllable stress | 1           | yes         | ,        | %     |
| Discriminate syllable stress | . 1         | no          |          | %     |

TASK 4: DISCRIMINATING SYLLABLE STRESS PATTERNS: MULTISYLLABIC WORDS (6)

<u>Learning Objective</u>: The student will identify multi-syllabic words as having same or different syllable stress patterns when the words are auditorily presented with an inter-stimulus interval of 1.0 seconds. Visual cues will or will not be displayed to facilitate performance.

Activity Module 2: 100% correct on 4 same trials and 83% on 6 different trials within round of

| piay.                                 |             |             |          |
|---------------------------------------|-------------|-------------|----------|
| <u>Task (4)</u>                       | # Syllables | Visual Cues | # Trials |
| Cuml. Score                           |             |             |          |
| Discriminate syllabic stress patterns | 2           | yes         |          |
| %                                     |             | ·           |          |
| Discriminate syllabic stress patterns | 2           | no          |          |
| %                                     |             |             |          |
| Discriminate syllabic stress patterns | 3           | yes         |          |
| %                                     |             | •           |          |
| Discriminate syllabic stress patterns | 3           | no          |          |
| %                                     |             |             |          |
| Discriminate syllabic stress patterns | 4           | yes         |          |
| %                                     |             | . •         |          |
| Discriminate syllabic stress patterns | 4           | no          |          |
| %                                     | •           |             |          |
|                                       |             |             | •        |

#### TASK 5: IDENTIFYING SYLLABLE STRESS PATTERNS (9)

<u>Learning Objective</u>: The student will replicate syllable stress patterns of multi-syllabic syllable words. Visual cues will or will not be displayed to facilitate performance.

i. Activity Module 3: 3/2 adaptive training

| <u>Task (5)</u>                   | <u># Syllables</u> | <u>Visual Cues</u> | Auditory Feedback | <u>#</u> |
|-----------------------------------|--------------------|--------------------|-------------------|----------|
| Trials Score                      |                    |                    |                   |          |
| Replicate syllabic stress pattern | 2 syllables        | yes                | yes               |          |
| %                                 |                    |                    |                   |          |
| Replicate syllabic stress pattern | 2 syllables        | no                 | yes               |          |
| %                                 |                    |                    | •                 |          |
| Replicate syllabic stress pattern | 2 syllables        | no                 | no                | •        |
| %                                 |                    |                    |                   |          |
| Replicate syllabic stress pattern | 3 syllables        | yes                | yes               |          |
| %                                 | •                  | •                  | •                 |          |
| Replicate syllabic stress pattern | 3 syllables        | no                 | yes               |          |
| %                                 | ·                  |                    | •                 |          |
| Replicate syllabic stress pattern | 3 syllables        | no                 | no                |          |
| %                                 | · ·                |                    |                   |          |
| Replicate syllabic stress pattern | 4 syllables        | yes                | yes               |          |
| %                                 | ·                  | •                  | •                 |          |
| Replicate syllabic stress pattern | 4 syllables        | no                 | yes               |          |
| %                                 | ·                  |                    | J                 |          |
| Replicate syllabic stress pattern | 4 syllables        | no                 | no                |          |
| %                                 | Ť                  |                    | •                 |          |

Instruction Script\_Revised 2-12-99 Revised 4-23-99

Word Lists Revised 6-2-99

# THE REPORT OF THE PERSON OF TH

# Word list revised 9-20-99.-(JMW)

# TOKEN =→ IC

Task 1

IN1: Rap-A-Tap-Tap, Rap-A-Tap-Tap,

It'll be so cool, it'll be so neat
Tap on the mouse once for every WORD beat.
Revised 4/23/99

IN1: Rap-A-Tap-Tap, Rap-A-Tap-Tap,

It'll be so cool, it'll be so neat Click once for every WORD to keep the beat

DEMO1A: Let me show you how it's done. First I listen....DEMO1B: Then I tap....
DEMO1C: Are you ready? Here we go.....

Task 2:

IN2: Rap-A-Tap-Tap, Rap-A-Tap-Tap, 2. It'll be so cool, it'll be so neat

3. Tap on the mouse once for every SYLLABLE

Revised 4/23/99

IN2: Rap-A-Tap-Tap, Rap-A-Tap-Tap, It'll be so cool, it'll be so neat Click once for every SYLLABLE to keep the beat.

DEMO1A: Let me show you how it's done. First I listen....DEMO1B: Then I tap....
DEMO1C: Are you ready? Here we go.....

Task 3:

IN3/4: Rap-A-Tap-Tap, Rap-A-Tap-Tap,

You're so cool, you're so neat

Follow my directions....we'll be rockin' to the beat.

DEMO3A: Click on the two green lights when you hear two sounds that are the SAME, like this...

DEMO3B: Click on the green and yellow lights when you hear two DIFFERENT sounds, like this...

DEMO1C: Are you ready? Here we go....

Revised 4/23/99

DEMO3A: Click on the two green lights when you hear two sounds that have the SAME stress, like this...

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DEMO3B: Click on the green and yellow lights when you hear two sounds that have DIFFERENT stress, like this...

#### Task 4:

IN3/4: Rap-A-Tap-Tap, Rap-A-Tap-Tap,

You're so cool, you're so neat

Follow my directions.... we'll be rockin' to the beat.

DEMO4A: Click on the two green lights when you hear two sound PATTERNS that are the SAME, like this...

DEMO4B: Click on the green and yellow lights when you hear two DIFFERENT sound PATTERNS, like this...

DEMO1C: Are you ready? Here we go....

Revised 4/23/99

DEMO4A: Click on the two green lights when you hear words that sound the SAME, like this...

DEMO4B: Click on the green and yellow lights when you hear two words that sound

DIFFERENT, like this...

DEMO4A: Click on the two green lights when you hear two STRESS patterns that are the SAME, like this...

DEMO4B: Click on the green and yellow lights when you hear two DIFFERENT stress patterns, like this...

Task 5:

IN5A: Rap-A-Tap-Tap, Rap-A-Tap-Tap,

You're so cool, you're so neat

Follow my directions....we'll be rockin' to the beat.

IN5B: Listen to the beats of the of the word I say.

Click on my drum to match what you hear. Click here to play the big, strong notes. Click here to play the little, quiet notes.

DEMO1A: Let me show you how it's done.

First I listen....DEMO5B: Then I click....

DEMO1C: Are you ready? Here we go.....

#### b. Stimuli

Revised 2/12/99

TASK 1: Segmenting 4-6 word sentences into words.

21 sentences, 84 words

Record full sentence with normal inflection.

Record each word with non-final inflection (read in reverse order)

Need to record 3 additional sentences in each group (4, 5, 6 words) for total of 30 sentences for more variety.

#### 9/22/99 Sentence revisions shown in bold.

#### 4 words

1R-Kate likes to skate. → I like to bike.

1-Jen takes a nap.  $\rightarrow$  He goes to school.

2-My room is messy.  $\rightarrow$  The door is open.

2-I broke my glasses → I always drink milk.

2-My teacher is funny.

2-The pizza is hot.  $\rightarrow$  It is very hot.

2-Her sister is silly.  $\rightarrow$  Her sister is pretty.

2-Fish swim in water. → I can carry you.

2-Matt made five wishes. -> She made five wishes.

Added 6/2/99

1R-He ate the date.

1R-Matt has a cat.

1R-The nun can run.

1R-Let's make a cake.

1R-Let's get a pet.

1R-Let's try to fly.

1R-Plip, plop, drip, drop. → OMIT

1R-The pot got hot.

1R- The mop will drop.  $\rightarrow$  The ball will fall.

1-He read the book.

1-My name is Bob.  $\rightarrow$  I just found it.

1-It is lunch time. → **OMIT** 

1-She has six dolls.  $\rightarrow$  **OMIT** 

1-She can play now.

1 The doll is new.  $\rightarrow$  Bring both toys here.

1-The bike is blue.

1-Show us the duck.  $\rightarrow$  Don't show us now.

1-I shall go first.

2R-Candy is so dandy.

2R-The kittens wear mittens.

2R-The poodles eat noodles.

2R-Mable set the table.

2R-Here's money for honey.

2-Sam has many friends.

2-It is warm today.

2-They like candy too.

2-The rabbit is big.

- 2-We want some pizza.
- 2-He has two rabbits.
- 2-The puppy ran away.
- 2-Look at my sister.
- 2-The sun is yellow.
- 2-We played after school.
- 2-Daddy found the ball.
- 2-Do your very best.
- 2-Open only one box.
- 2-I have seven kittens.

### 5 words

- 1R-Mike likes his red bike.
- 1R-Bill is on the hill. → OMIT
- 1-Ned jumped on his bed.  $\rightarrow$  OMIT
- 2-Wet kisses make me giggle. 

  We are going to sleep.
- 2-Kevin is washing the dishes. → I never walk by myself.
- 2-Mom is rocking the baby. → OMIT
- 2-He fell off the ladder.  $\rightarrow$  OMIT
- 2-The dragon likes to wiggle.
- 2R-Cotton candy is so dandy.
- 2R-Rockets, rockets in my pockets.
- 2R-The little fellow likes yellow.

Added 6/2/99

1R-Dell fell in the well.

1R-The cat wears a hat. → The black car went far.

1R-No, no do not go!

1R-It is fun to run!

1R-He fell on the bell.  $\rightarrow$  He fell in the well.

1R-She ran with the pan.

1R-We sleep with the sheep.

1R-They took the red book.

1R-Our house has a mouse.

1-I will work with you.

1-He likes to run fast. →

1-We walked back to school.  $\rightarrow$  Ask if we may go.

1-I am eight years old.

1-I will be your friend.

1-The big boy lives here.

1-There goes the school bus.  $\rightarrow$  We will start school soon.

1-I did my own work.

2R-The fishes are washing dishes.  $\rightarrow$  OMIT

2R-What a funny little bunny.

2R-Hey Mister, she's my sister.

2R-The puppy ate a guppy.

2R-I giggle when you wiggle.

2-The teacher will help you.

2-Look at this little pig.

- 2-I have a big brother.
- 2-The big dog ran away.
- 2-We saw three brown rabbits.
- 2-Our house is very old.
- 2-Please come over and play.
- 2-The men were very kind. → Let him go before you.
- 2-I heard the snowman laugh.  $\rightarrow$  The snowman made them laugh.
- 2-The boys ate the candy.
- 2-I want to play again.
- 2-We are going far away.
- 2-The ride was very long.
- 2-Thank you for the candy.
- 2-I can carry both books. → This is where my teacher lives.
- 2-The little pig was cold.
- 2-Let him hold the baby.
- 2-The small doll is pretty.

#### 6 words

- 1R-Take the rake to the lake.
- 1R-The pig has a red wig.
- 1R-The new bike is for Mike.
- 1R- Ned said get off the bed.
- 1-Here is your ball and mitt. → OMIT

- 1-Sit down when you are done.
- 1-I can find my way home.
- 1-He can use my red car.
- 2R-Not so soon you big baboon.
- 2-Put the dishes on the table.
- 2-The button fell off my jacket. → OMIT
- 2-The boys like to eat candy.
- 2-The monster gave me a pickle.

#### Added 6/2/99

- 1R-Stop and see the big tree.
- 1R- We can keep the black sheep.
- 1R-We will get a new pet.
- 1R-Let us know if you go.
- 1R-I think I'll have a drink.
- 1R-Ten hens are in the pen.
- 1R-Be fast and not the last.
- 1R-The frog jumped on the log.  $\rightarrow$  The frog sat on the log.
- 1R-Look, look I found the book.
- 1-Yes, we may see the show.
- 1-This book is for my friend.
- 1-Come out and play with me.
- 1-Bring the black pen to me.

- 1-I have to clean my room.
- 1-We like to draw and paint.
- 1-I sleep with the light on.
- 2R-There's a dragon in my wagon.
- 2R-Put the cable on the table.
- 2R-The fiddle goes in the middle.
- 2R-I feel funny when it's sunny.
- 2R-We bought honey with the money.
- 2-We went to see the doctor.
- 2-The girl jumped into the water.
- 2-Father went to school with us.
- 2-We saw fish in the water.
- 2-This note is from my mother.
- 2-All the children are in school.
- 2-The monster has big green feet.
- 2-I will buy some yellow paint.
- 2-I could tell you a story.
- 2-A dragon lives behind my house.
- 2-We would like some birthday cake.
- 2-Always look before crossing the street.
- 2-Tell me a story right now.
- 2-Come to my house after school.
- 2-Father came to pick me up.
- 2-We have many new baby kittens.

2-Frogs like to eat yummy treats.

TASK 2: Segmenting words into syllables

#### 9-20-99 Revised word list includes only those words in bold.

# 1 syllable words

takes nap likes skate

room broke my hot

hill red bike jumped

bed Mom fell off

ball mitt take rake

lake pig wig boys eat

New words added to list 6/2/99 (remove duplicates)

the date he ate has a cat get can run make cake pet nun try to fly drop hot will drop book drip pot got mop name is it is lunch time my dolls doll she has six play now new bike blue show duck first fell us go in well wears hat cat no do not fun run bell ran with sleep with on pan we sheep book they took red our house mouse look at this little pig work you big dog likes fast we walked back school

your friend boy eight years old be lives here am did work there goes bus own black get stop and see tree keep new let know if think I'll have drink us hens ten are pen be fast not last jumped log frog show yes may this book for friend come out me bring clean room draw pain light

# 2 syllable words

Record each whole word with normal inflection.

Record each syllable.

# 9-20-99 Revised word list includes only those words in bold.

| ra'-bbit         | ja'-cket       | bu'-tton   | me'-ssy  | wi'-ggle |
|------------------|----------------|------------|----------|----------|
| fu'-nny          | si'-lly        | tea'-cher  | wa'-gon  | pi'-ckle |
| dra'-gon         | gla'-sses      | di'-shes   | la'-dder | ta'-ble  |
| zi'-pper         | ro'-cking      | pi'-zza    | a'-pple  | can'-dy  |
| ro'-bot si'-ster | mon'           | -ster ba'- | by wa'-  | shing    |
| 4. New word      | s added 6/2/99 | 9          |          |          |

| dan'- | dy. ki'-tte<br>poo'-dles |               | ens<br>ta'-ble | mo'-ney    |            |           |
|-------|--------------------------|---------------|----------------|------------|------------|-----------|
|       | ho'-ney                  | to-day'       | pu'-ppy        | a-way'     | ye'-llow   |           |
|       | af'-ter                  | o'-pen on'-ly | se'-ve         | en ki'-sse | es gi'-ggl | e         |
|       | li'-ttle<br>bro'-ther    | fu'-nny       | bu'-nny        | gu'-ppy    | wi'-ggle   | tea'-cher |
|       | a'-way<br>ca'-ble        | o'-ver        | ba'-by         | a-gain'    | dra'-gon   | wa'-gon   |
|       | fi'-ddle                 | mi'-ddle      | fi'-shes       | fu'-nny    | su'-nny    |           |

fa'-ther ho'-ney doc'-tor wa'-ter mon'-ster be'-hind cross'-ing mo'-ther yu'-mmy

9-20-99 New words added in bold my-self' un'-der to-day'mu'-sic be-cause' win'-ter be-fore' thun'-der al'-ways pa'-per a-bout'nap'-kin num'-ber par'-ty pic'-nic

# 3 syllable words

Record each whole word with normal inflection.

Record each syllable to match.

9-20-99 Revised word list includes only those words in bold.

ske'-le-ton pre'-si-dent prin'-ci-pal e-le'-ven cro'-co-dile cu'-cum-ber e'-le-phant te'-le-phone am'-bu-lance ham'-bur-ger grass'-ho-pper

di'-no-saur lo'-lli-pop bu'-tter-fly al'-pha-bet pop'-si-cle

cho'-co-late

a'-ni-mal

por'-cu-pine

dis-co'-ver tor-na'-do pa-ja'-mas to-ma'-to ba-na'-na com-pu'-ter po-lice'-man go-ri'-lla um-bre'-lla

le-mo-nade' kan-ga-roo' ma-ga-zine'

#### 4 syllable words (15 words)

Record each whole word with normal inflection.

Record each syllable to match.

9-20-99 Revised word list includes only those words in bold.

wa'-ter-me-lon a'-lli-ga-tor he'-li-cop-ter ca'-ter-pi-llar ro'-ller-coa-ster

cal'-cu-la-tor e'-le-va-tor ve'-ge-ta-bles

bi-no'-cu-lars rhi-no'-cer-os har-mo'-ni-ca ther-mo'-me-ter

ba-ller-i'-na ma-ca-ro'-ni a-vo-ca'-do

9-20-99 New words added in bold kin'-der-gar-ten su'-per-mar-ket

TASK 3

Discriminating syllable stress of single syllable words

9-20-99 Revised word list includes only those words in bold.

fat, cat, nap, big, hot, bed, mop, hill, zip, pen, mitt, fun, pen, cave, fell, bell, wig, pig, bike, take, like, skate, kite, lake, rake

New words added 6/2/99:

he, ate, the, date, has, nun, can, run, make, cake, get, pet, try, to, fly, drip, drop, pot, got, hot, mop, will, book my, name, is, it, lunch, time, she, has, six, dolls, play, now, doll, new, bike, blue, show, us, duck, go, first, fell in, well, hat, no, do, not, fun, run, on, bell, ran, with, pan, we, sleep, with, sheep, they, took, red, book, our, house, mouse, look, at, this, little, pig, work, you, big, dog, fast, we, back, school, am, eight, years, old, be, your, bus, did, own, work, stop, and, see, tree, keep black, get, new, let, us, know, if, think, have, drink, ten, are, pen, fast, not, frog, log, yes, may, show, this, book, for, friend, come, out, me, bring, clean, room, draw, pain, light

TASK 4: Discriminating 2,3,4 syllable words with varying stress

2 syllable words (25 words, included above)

Record each whole word with normal inflection and with contrastive syllable stress.

Record each syllable to match.

9-20-99 Added 2 syllable compound words.

some'-thing

door'-bell

pop'-corn

my-self'

to-day'

with-out'

tooth'-brush

gum-'-ball hot'-dog birth'-day snow'-man mail'-bag sail'-boat fire'-man school'-book rain'-coat skate'-board shoe'-lace tea'-pot sun'-shine boy'-friend home'-work

#### 3 syllable words

Record each whole word with normal inflection.

Record each syllable to match.

9-20-99 Revised word list includes only those words in bold.

ske'-le-ton pre'-si-dent prin'-ci-pal e-le'-ven cro'-co-dile cu'-cum-ber e'-le-phant te'-le-phone am'-bu-lance ham'-bur-ger grass'-ho-pper di'-no-saur lo'-lli-pop bu'-tter-fly al'-pha-bet pop'-si-cle cho'-co-late a'-ni-mal por'-cu-pine

dis-co'-ver tor-na'-do pa-ja'-mas to-ma'-to ba-na'-na com-pu'-ter po-lice'-man go-ri'-lla um-bre'-lla

le-mo-nade' kan-ga-roo' ma-ga-zine'

#### 4 syllable words (15 words)

Record each whole word with normal inflection. Record each syllable to match.

## 9-20-99 Revised word list includes only those words in bold.

wa'-ter-me-lon a'-lli-ga-tor he'-li-cop-ter ca'-ter-pi-llar ro'-ller-coa-ster

cal'-cu-la-tor e'-le-va-tor ve'-ge-ta-bles

bi-no'-cu-lars rhi-no'-cer-os har-mo'-ni-ca ther-mo'-me-ter

ba-ller-i'-na ma-ca-ro'-ni a-vo-ca'-do

9-20-99 New words added in bold kin'-der-gar-ten su'-per-mar-ket

TASK 5: Matching stress pattern of 2, 3, 4 syllable words (Recorded above in Task 2)

# 9-20-99 Revised word list includes only those words in bold.

me'-ssy wi'-ggle ja'-cket bu'-tton ra'-bbit pi'-ckle wa'-gon fu'-nny si'-lly tea'-cher la'-dder ta'-ble di'-shes dra'-gon gla'-sses can'-dy zi'-pper ro'-cking pi'-zza a'-pple ro'-bot si'-ster mon'-ster ba'-by wa'-shing

5. New words added 6/2/99

dan'-dy. ki'-ttens mi'-ttens noo'-dles ta'-ble mo'-ney poo'-dles to-day' pu'-ppy a-way' ye'-llow ho'-ney o'-pen on'-ly ki'-sses af'-ter se'-ven gi'-ggle wi'-ggle li'-ttle fu'-nny bu'-nny gu'-ppy tea'-cher bro'-ther ba'-by a-gain' dra'-gon wa'-gon a'-way o'-ver ca'-ble

fi'-ddle mi'-ddle fi'-shes fu'-nny su'-nny ho'-ney doc'-tor wa'-ter fa'-ther mo'-ther mon'-ster be'-hind cross'-ing yu'-mmy

9-20-99 New words added in bold my-self' un'-der to-day'mu'-sic be-cause' win'-ter be-fore' thun'-der al'-ways pa'-per a-bout'nap'-kin num'-ber par'-ty pic'-nic

For JMW use only - 2 syllable word count: stress on  $1^{st}$  syllable = 19 stress on  $2^{nd}$  syllable = 7

## 3 syllable words (30 words)

Record each whole word with normal inflection.

Record each syllable to match.

9-20-99 Revised word list includes only those words in bold.

ske'-le-ton pre'-si-dent prin'-ci-pal e-le'-ven cro'-co-dile cu'-cum-ber e'-le-phant te'-le-phone am'-bu-lance ham'-bur-ger grass'-ho-pper di'-no-saur lo'-lli-pop bu'-tter-fly al'-pha-bet pop'-si-cle cho'-co-late a'-ni-mal por'-cu-pine

dis-co'-ver tor-na'-do pa-ja'-mas

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stress on  $2^{nd}$  syllable = 1

to-ma'-to ba-na'-na com-pu'-ter po-lice'-man go-ri'-lla For JMW use only - 3 syllable word count: stress on  $1^{st}$  syllable = 8 stress on  $2^{nd}$  syllable = 6 4 syllable words (15 words) Record each whole word with normal inflection. Record each syllable to match. 9-20-99 Revised word list includes only those words in bold. wa'-ter-me-lon a'-lli-ga-tor he'-li-cop-ter ca'-ter-pi-llar ro'-ller-coa-ster cal'-cu-la-tor e'-le-va-tor ve'-ge-ta-bles bi-no'-cu-lars rhi-no'-cer-os har-mo'-ni-ca ther-mo'-me-ter ba-ller-i'-na ma-ca-ro'-ni a-vo-ca'-do 9-20-99 New words added in bold (RECORD WITH CONSTRASTIVE STRESS ON EACH SYLLABLE) kin'-der-gar-ten su'-per-mar-ket For JMW use only - 4 syllable word count: stress on  $1^{st}$  syllable = 6 stress on  $2^{nd}$  syllable = 2

Revised 6/2/99: Separated out real & nonsense words
Revised 9/25/99: Remove all words ending in 'ck' and 'll' from all Tasks;
Removed Tasks 4, 5, 6; Renumbered Tasks 7 & 8 to now be Tasks 4 & 5; Remove
Tasks 9 & 10; Renumbered Tasks 11 & 12 to now be Tasks 6 & 7; Revised header
and learning objective text for new Task 6; Revised header and learning
objective text for new Task 7; remove VCe and CVCe words from new Tasks 6 & 7;
Remove VCe and CVCe levels from new Task 7; JMW needs to review all word lists,
please provide this data; Added 4 additional tasks, new Tasks 8 and 9 use
Activity Module 1, new Task 10 uses Activity Module 3 and new Task 11 uses
Activity Module 4; word lists added for new Tasks 8, 9, 10 & 11.
Revised 10/11/99: Revised task numbers to correspond to re-design and renumbering of tasks in design specs on 9/25/99. Removed words from word lists
(all words ending in "ck", "ll" and all CVCe words); added 5 new words in task

TOKEN ( JC

Slurp & Burp

Player:

(Current Player)

Game:

Slurp & Burp

Primary Skills: Blending onset-rime; Recognizing word endings; Segmenting phonemes; Deleting phonemes; Word identification, Decoding and Spelling.

ACTIVITY MODULE 1: Present sound units, separated by interval. Student makes response by selecting one of three pictures.

ACTIVITY MODULE 2: Present word. Instruct student to identify word ending by selecting from one of three choices.

ACTIVITY MODULE 3: Click to segment word into phonemes ACTIVITY MODULE 4: Student spells word with keyboard input.

STEP 1 (12 tasks; 134 levels of play)

TASK 1: BLENDING ONSETS & RIMES AND DECODING: CVC WORDS (13)

Learning Objectives: The student will blend onset-rime units presented at x second intervals with or without corresponding graphemes into a word and will make a response by selecting from a set of three phonetically-dissimilar or phonetically-similar words. The student will identify CVC words presented with no auditory cues and will make a response by selecting from a set of three phonetically-dissimilar or phonetically-similar words.

Phonetically dissimilar = different initial consonant and medial vowel. Phonetically similar = same rime or onset.

"Hello. Bog Frogg here." "Let me show you how to play."

A: "s-un says sun"

A: "Now it's your turn. What word do you hear?"

A&G: "s-un says sun"

A&G: "Now it's your turn. What word do you hear and see?"

G: "This word is sun"

G: "Now it's your turn. What word do you see?"

No lily-pad rollovers.

Activity Module 1

Task(1) Presentation

Interval Choices

# Trials

Cuml. Score

1-Blend onset-rimes auditory

.25 sec

dissimilar

| 2-Blend onset-rimes  | auditory          | 1 sec   | dissimilar |
|----------------------|-------------------|---------|------------|
| 3-Blend onset-rimes  | auditory          | 2 sec   | dissimilar |
| 4-Blend onset-rimes  | auditory          | 2 sec   | same rime  |
| 5-Blend onset-rimes  | auditory          | 2 sec   | same onset |
| 6-Blend onset-rimes  | auditory & visual | .25 sec | dissimilar |
| 7-Blend onset-rimes  | auditory & visual | 1 sec   | dissimilar |
| 8-Blend onset-rimes  | auditory & visual | 2 sec   | dissimilar |
| 9-Blend onset-rimes  | auditory & visual | 2 sec   | same rime  |
| 10-Blend onset-rimes | auditory & visual | 2 sec   | same onset |
| 11-Decode CVC words  | visual            | n/a     | dissimilar |
| 12-Decode CVC words  | visual            | n/a     | same rime  |
| 13- Decode CVC words | visual            | n/a     | same onset |

TASK 2: BLENDING ONSETS & RIMES AND DECODING: CVC NONSENSE WORDS (13)
Learning Objectives: The student will blend onset-rime units presented at x
second intervals with or without corresponding graphemes into a word and will
make a response by selecting from a set of three phonetically-dissimilar or
phonetically-similar nonsense words. The student will decode CVC nonsense words
presented with no auditory cues and will make a response by selecting from a set
of three phonetically-dissimilar or phonetically-similar nonsense words.
Phonetically dissimilar = different initial consonant and medial vowel.
Phonetically similar = same rime or onset.

"Hello. Bog Frogg here." "Let me show you how to play."

A: "s-un says sun"

A: "Now it's your turn. What word do you hear?"

A&G: "s-un says sun"

A&G: "Now it's your turn. What word do you hear and see?"

G: "This word is sun"

G: "Now it's your turn. What word do you see?"

No lily-pad rollovers.

Activity Module 1

| Task(2)                   | Presentati  | on   | Interval | Choices    | # Trials |
|---------------------------|-------------|------|----------|------------|----------|
| Cuml. So<br>1-Blend onset |             | tory | .25 sec  | dissim     | ilar     |
| 2-Blend onset             | · ·         | tory | 1 sec    | dissimilar | •        |
| 3-Blend onset             | -rimes audi | tory | 2 sec    | dissimilar |          |
| 4-Blend onset             | -rimes audi | tory | 2 sec    | same rime  |          |

| 5-Blend onset-rimes      | auditory      | 2        | sec    | same onset |
|--------------------------|---------------|----------|--------|------------|
| 6-Blend onset-rimes      | auditory & vi | isual .: | 25 sec | dissimilar |
| 7-Blend onset-rimes      | auditory & vi | isual 1  | sec    | dissimilar |
| 8-Blend onset-rimes      | auditory & vi | isual 2  | sec    | dissimilar |
| 9-Blend onset-rimes<br>% | auditory & vi | isual 2  | sec    | same rime  |
| 10-Blend onset-rimes     | auditory & vi | isual 2  | sec    | same onset |
| 11-Decode CVC words vis  | ual           | n/a      | dissim | ilar       |
| 12-Decode CVC words vist | ual           | n/a      | same r | ime        |
| 13-Decode CVC words vist | ıal           | n/a      | same o | nset       |

TASK 3: SEGMENTING & ELISION OF INITIAL CONSONANT: CVC WORDS & NONSENSE WORDS (12)

Learning Objective: When presented with a one-syllable CVC word or nonsense word, the student will identify the rime unit by selecting from one of three phonetically-dissimilar or phonetically-similar rimes.

Phonetically dissimilar = different vowel.

Phonetically similar = same vowel.

"Hello. Bog Frogg here."

A: "Listen to the frog say sun without the s.....un (animate)"

A: "Now it's your turn. Which frog says --- without the ---?"

A&G: "Listen to the frog say sun without the s....un (animate)"

A&G: "Now it's your turn. Which frog says --- without the ---?"

G: "Watch the frog spell the end of sun (animate)"

G: "Now it's your turn. Which letters spell \_\_\_ without the ?"

User rolls-over lily-pad to hear (at auditory levels) and select response choices.

| Activity Module 2             | •                 |            |          |
|-------------------------------|-------------------|------------|----------|
| Task(3)                       | Presentation      | Choices    | # Trials |
| Cuml. Score                   |                   |            |          |
| 1-ID rime in CVC word         | auditory          | dissimilar |          |
|                               |                   |            |          |
| 2-ID rime in CVC word         | auditory          | similar    |          |
| •                             |                   |            |          |
| 3-ID rime in CVC word         | auditory & visual | dissimilar |          |
|                               | ,                 |            |          |
| 4-ID rime in CVC word         | auditory & visual | similar    |          |
| 5-ID rime in CVC word         | visual            | dissimilar |          |
| •                             | •                 |            |          |
| 6-ID rime in CVC word         | visual            | similar    |          |
|                               |                   |            | •        |
| 7-ID rime in CVC nonsense wor | d auditory        | dissimilar | •        |
|                               |                   |            | . 8      |
| 8-ID rime in CVC nonsense wor | d auditory        | similar    |          |
|                               |                   |            |          |

9-ID rime in CVC nonsense word auditory & visual dissimilar

10-ID rime in CVC nonsense word auditory & visual similar

11-ID rime in CVC nonsense word visual dissimilar

12-ID rime in CVC nonsense word visual similar

#### (Former Task 7)

TASK 4: BLENDING PHONEMES AND DECODING: CVC WORDS (10)

Learning Objectives: The student will blend three phonemes presented at x second intervals with or without corresponding graphemes into a word and will make a response by selecting from a set of three phonetically-dissimilar or phonetically-similar words. The student will identify CVC words presented with no auditory cues and will make a response by selecting from a set of three phonetically-dissimilar or phonetically-similar words.

Phonetically dissimilar = (different initial and final consonants and medial vowel).

Phonetically similar = (same medial vowel and initial or final consonant).

"Hello. Bog Frogg here." "Let me show you how to play"

A: "s-u-n says sun"

A: "Now it's your turn. What word do you hear?"

A&G: "s-u-n says sun"

A&G: "Now it's your turn. What word do you hear and see?"

Presentation

G: "This word is sun"

G: "Now it's your turn. What word do you see?"

No roll-overs on lilypads.

# Activity Module 1 Task(4)

| Cuml. Score                |          |          |         |            |
|----------------------------|----------|----------|---------|------------|
| 1-Blend phonemes           | auditory |          | .25 sec | dissimilar |
| 2-Blend phonemes           | auditory |          | 1 sec   | dissimilar |
| 3-Blend phonemes           | auditory |          | 2 sec   | dissimilar |
| 4-Blend phonemes           | auditory |          | 2 sec   | similar    |
| 5-Blend phonemes           | auditory | & visual | .25 sec | dissimilar |
| 6-Blend phonemes           | auditory | & visual | 1 sec   | dissimilar |
| 7-Blend phonemes           | auditory | & visual | 2 sec   | dissimilar |
| 8-Blend phonemes           | auditory | & visual | 2 sec   | similar    |
| 9-Decode CVC words         | 3        | visual   | n/a     | dissimilar |
| 10-Decode CVC words visual |          |          | n/a     | similar    |

Interval

Choices

# Trials

(Former Task 8)

TASK 5: BLENDING PHONEMES AND DECODING: CVC NONSENSE WORDS (10)

Learning Objectives: The student will blend three phonemes presented at x second intervals with or without corresponding graphemes into a nonsense word and will make a response by selecting from a set of three phonetically-dissimilar or phonetically-similar nonsense words. The student will decode CVC words presented with no auditory cues and will make a response by selecting from a set of three phonetically-dissimilar or phonetically-similar nonsense words. Phonetically dissimilar = (different initial and final consonants and medial

Phonetically similar = (same medial vowel and initial or final consonant).

"Hello. Bog Frogg here." "Let me show you how to play"

A: "s-u-n says sun"

vowel).

A: "Now it's your turn. What word do you hear?"

A&G: "s-u-n says sun"

A&G: "Now it's your turn. What word do you hear and see?"

G: "This word is sun"

G: "Now it's your turn. What word do you see?"

No roll-overs on lilypads.

#### Activity Module 1

| Task(5)            | Presentation      | inter   | al Choices # 1 | # Trials |
|--------------------|-------------------|---------|----------------|----------|
| Cuml. Score        |                   |         |                |          |
| 1-Blend phonemes   | auditory          | .25 sec | dissimilar     |          |
| 2-Blend phonemes   | auditory          | 1 sec   | dissimilar     |          |
| 3-Blend phonemes   | auditory          | 2 sec   | dissimilar     |          |
| 4-Blend phonemes   | auditory          | 2 sec   | similar        |          |
| 5-Blend phonemes   | auditory & visual | .25 sec | . dissimilar · |          |
| 6-Blend phonemes   | auditory & visual | 1 sec   | dissimilar     |          |
| 7-Blend phonemes   | auditory & visual | 2 sec   | dissimilar     |          |
| 8-Blend phonemes   | auditory & visual | 2 sec   | similar        |          |
| 9-Decode CVC word  | s visual          | •       | n/a dissimila  | ar       |
| 10-Decode CVC work | ds visual         | n/a     | similar        |          |

#### (Former Task 11)

TASK 6: SEGMENTING VC & CVC WORDS INTO PHONEMES (6)

Learning Objective: The student will segment VC and CVC real words and nonsense words into phonemes. Auditory feedback will or will not be provided during response. Graphemes will or will not be displayed during response. (programming note: 80% criterion here)

"Hello. Bog Frogg here. Click on the mouse once for each sound you hear. Let me show you how this is done."

A: "First, listen to the word..... sun. Then, click on the mouse once for each sound in the word, like this...s-u-n "

A: "Now it's your turn."

A&G: "First, listen to the word..... sun. Then, click on the mouse once for each sound in the word, like this...s-u-n"

13

ij

D

A&G: "Now it's your turn."

G: "First, Listen to the word..... sun. Then, click on the mouse once for each

sound in the word, like this...s-u-n "

G: "Now it's your turn."

Activity Module 3

Auditory Feedback Display Graphemes # Trials Task(6)

Cuml. Score

1-Segment real word into phonemes yes no 2-Segment real word into phonemes yes yes 3-Segment real word into phonemes no yes 4-Segment nonsense word into phonemes yes no 5-Segment nonsense word into phonemes yes yes 6-Segment nonsense word into phonemes no yes

(Former Task 12)

TASK 7: SPELLING VC & CVC WORDS (12)

Learning Objective: The student will spell VC and CVC real and nonsense words by typing letters on the keyboard. Auditory cues and feedback will or will not be available during the encoding response.

"Hello. Bog Frogg here. Let me show you how to play.

A: "First, listen to the word..... sun. Then, use the keyboard to spell the word.

A: "Now it's your turn."

No A: "First, listen to the word..... sun. Then, use the keyboard to spell the word.

No A: "Now it's your turn."

Auditory cues = roll-overs

Auditory Feedback = play sound when typed in by user.

Activity Module 4

Auditory Cues Auditory Feedback # Trials Task(7) Cuml. Score 1-Spell VC, CVC real word yes yes · 2-Spell VC, CVC real word yes 3-Spell VC, CVC real word no no 4-Spell VC, CVC nonsense word yes yes 5-Spell VC, CVC nonsense word no yes 6-Spell VC, CVC nonsense word no

WORD LISTS

Task 1

Blend onset-rimes: REAL WORDS

Revised 10/11/99: removed all words ending in "ck" and "ll"

Dissimilar: select foils from different vowel family, exclude those with same onset

```
k:cap,m:map,l1:lap,aep
b:back,s:sack,dz:jack,aek
d:dad,s:sad,m:mad,aed
m:mat,h:hat,k:cat,aet
k:can,f:fan,p:pan,aen
h:ham,dz:jam,j:yam,aem
b:bag,r1:rag,t:tag,aeg
sh:shell,b:bell,w:well,cap(e)1
p:pen,t:ten,m:men,cap(e)n
r1:red,b:bed,sh:shed,cap(e)d
w:wet,n:net,dz:jet,cap(e)t
k:kick,l1:lick,s:sick,cap(i)k
ch:chin,p:pin,f:fin,cap(i)n
w:wig,p:pig,d:dig,cap(i)g
11:lip,sh:ship,z:zip,cap(i)p
p:pot,k:cot,h:hot,at
m:mop,t:top,k:cop,ap
s:sock,r1:rock,l1:lock,ak
n:nut,h:hut,k:cut,^t
s:sun,g:gun,b:bun,^n
k:cub,t:tub,s:sub,^b
b:bug,r1:rug,h:hug,^g
Same rime: select foils from same line
k:cap,m:map,l1:lap,aep
b:back,s:sack,dz:jack,aek
d:dad,s:sad,m:mad,aed
m:mat,h:hat,k:cat,aet
k:can,f:fan,p:pan,aen
h:ham,dz:jam,j:yam,aem
b:bag,r1:rag,t:tag,aeg
sh:shell,b:bell,w:well,cap(e)1
p:pen,t:ten,m:men,cap(e)n
r1:red,b:bed,sh:shed,cap(e)d
w:wet,n:net,dz:jet,cap(e)t
k:kick,l1:lick,s:sick,cap(i)k
ch:chin,p:pin,f:fin,cap(i)n
w:wig,p:pig,d:dig,cap(i)g
11:lip,sh:ship,z:zip,cap(i)p
p:pot,k:cot,h:hot,at
m:mop,t:top,k:cop,ap
s:sock,r1:rock,l1:lock,ak
n:nut,h:hut,k:cut,^t
s:sun,q:gun,b:bun,^n
k:cub,t:tub,s:sub,^b
b:bug,r1:rug,h:hug,^g
```

```
Same onset: select foils with same onset, same vowel family (whenever possible,
otherwise o.k. to select from different vowel family)
k:cap,m:map,l1:lap,aep
b:back,s:sack,dz:jack,aek
s:sad,m:mad,aed
m:mat,h:hat,k:cat,aet
k:can,f:fan,p:pan,aen
h:ham,dz:jam,r1:ram,aem
b:bag,rl:rag,t:tag,aeg
sh:shell,b:bell,f,fell,cap(e)l
p:pen,t:ten,m:men,h:hen,cap(e)n
r1:red,b:bed,sh:shed,cap(e)d
p:pet,dz:jet,cap(e)t
k:kick,l1:lick,s:sick,ch:chick,cap(i)k
ch:chin,p:pin,f:fin,cap(i)n
p:pig,cap(i)g
11:lip, sh:ship, ch:chip, cap(i)p
p:pot,k:cot,h:hot,at
m:mop,t:top,k:cop,ap
s:sock,r1:rock,l1:lock,ak
h:hut,k:cut,^t
s:sun,r1:run,b:bun,^n
k:cub,t:tub,s:sub,^b
b:bug,r1:rug,h:hug,^g
Task 2 (blending onset & rimes & decoding nonsense words (need to add?) YES
10/11/99
Words taken from Task 6.
New words added in bold
w:wap,b:bap,f:fap,aep
v:vad,n:nad,w:wad,aed
z:zat,w:wat,y:yat,aet
h:han,sh:shan,j:yan,aen
v:vam,n:nam,c:cam,aem
p:pag,c:cag,v:vag,aeg
m:mab,z:zab,w:wab,aeb
f:fen,l:len,v:ven,cap(e)n
p:ped, s:sed, dz:jed, cap(e)d
t:tet,ch:chet,h:het,cap(e)t
11:lin,h:hin,n:nin,cap(i)n
11:lig,s:sig,k:kig,cap(i)g
v:vip,m:mip,f:fip,cap(i)p
z:zot, m:mot, ch:chot, at
f:fop,dz:jop,z:zop,ap
ch:chod,v:vod,d:dod,ad
s:sut,w:wut,ch,chut,^t
l1:lun,d:dun,z:zun,^n
```

```
v:vub, z:zub, m:mub, ^b
f:fug,w:wug,sh,shug,^g
dz:jum, l1:lum, v:vum, ^m
j:yup,g:gup,dz:jupv:vup,h:hup,^p
Task 3
Segmenting & Elision of Initial Consonant REAL & NONSENSE WORDS
Revised 10/11/99: removed all words ending in "ck" and "ll"
Words need to be sorted into Real & Nonsense (I think Matthew may have already
done this, if not let me know and I will do it)
Dissimilar: select foils from different vowel sound family
Similar: select foils from same vowel sound family, different line
k:cap,m:map,l1:lap,n:nap,g:gap,w:wap,b:bap,f:fap,aep
b:back,s:sack,dz:jack,p:pack,r1:rack,d:dack,n:nack,aek
d:dad,s:sad,m:mad,h:had,l1:lad,w:wad,v:vad,n:bad,aed
m:mat,h:hat,k:cat,f:fat,s:sat,p:pat,z:zat,w:wat,j:yat,aet
k:can,f:fan,p:pan,v:van,r1:ran,l1:lan,h:han,aen
h:ham,dz:jam,j:yam,r1:ram,d:dam,v:vam,t:tam,n:nam,k:cam,aem
b:bag,r1:rag,t:tag,n:nag,s:sag,p:pag,h:hag,aeg
k:cab, l1:lab, t:tab, n:nab, g:gab, m:mab, z:zab, w:wab, aeb
sh:shell,b:bell,w:well,t:tell,j:yell,z:zell,r1:rell,cap(e)1
p:pen,t:ten,m:men,h:hen,d:den,f:fen,l1:len,cap(e)n
r1:red, sh:shed, b:bed, f:fed, l1:led, p:ped, s:sed, cap(e)d
w:wet,n:net,dz:jet,g:get,p:pet,s:set,t:tet,cap(e)t
p:peg, l1:leg, b:beg, w:weg, t:teg, d:deg, n:neg, cap(e) q
k:kick,l1:lick,s:sick,p:pick,t:tick,w:wick,z:zick,m:mick,cap(i)k
ch:chin,p:pin,f:fin,b:bin,t:tin,s:sin,l1:lin,m:min,cap(i)n
w:wig,p:pig,d:dig,f:fig,d:dig,l1:lig,s:sig,cap(i)g
11: lip, sh: ship, z: zip, d: dip, t: tip, v: vip, m: mip, cap(i)p
b:bit,h:hit,r1:rit,p:pit,f:fit,s:sit,l1:lit,w:wit,v:vit,cap(i)t
p:pill,s:sill,b:bill,t:till,f:fill,w:will,h:hill,d:dill,m:mill,cap(i)1
d:dig,rl:rig,b:big,s:sig,h:hig,n:nig,w:wig,f:fig,l1,lig,cap(i)g
p:pot,k:cot,h:hot,t:tot,n:not,d:dot,z:zot,m:ot,at
m:mop, t:top, k:cop, p:pop, h:hop, b:bop, f:fop, dz:jop, ap
s:sock,r1:rock,l1:lock,d:dock,m:mock,t:tock,j:yock,v:vock,ak
r1:rob,k:cob,m:mob,h:hob,l1:lob,w:wob,g:gob,s:sob,ab
rl:rod,n:nod,k:cod,p:pod,s:sod,t:tod,j:yod,ad
n:nut,h:hut,k:cut,b:but,r1:rut,g:gut,s:sut,w:wut,^t
s:sun,g:gun,b:bun,r1:run,f:fun,l1:lun,d:dun,^n
k:cub,t:tub,s:sub,h:hub,r1:rub,v:vub,z:zub,^b
b:bug,rl:rug,h:hug,d:dug,m:mug,f:fug,w:wug,^g
d:duck,t:tuck,p:puck,m:muck,l1:luck,n:nuck,w:wuck,^k
g:gum,r1:rum,s:sum,b:bum,h:hum,dz:jum,l1:lum,^m
k:cup,p:pup,j:yup,g:gup,dz:jup,v:vup,h:hup,^p
m:mud,f:fud,s:sud,l1:lud,z:zud,d:dud,b:bud,^d
(REMOVED former Task 3 10/11/99)
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Blending Onset-Rimes

Dissimilar: select foils from different vowel family, exclude those with same onset r1:ride,s:side,h:hide,aid l1:line,p:pine,v:vine,ain rl:rice,d:dice,m:mice,ais t:tile,p:pile,f:file,ail t:time,d:dime,l1:lime,aim t:tire,w:wire,f:fire,air w:wave,k:cave,sh:shave,ev k:cake,r1:rake,l1:lake,ek g:gate,d:date,k:kate t:tape,k:cape,ep k:cane,m:mane,en h:hose,r1:rose,n:nose,oz h:hole,p:pole,m:mole,ol rl:rope,op h:home,d:dome,om Same rime: select foils from same line r1:ride,s:side,h:hide,aid l1:line,p:pine,v:vine,ain rl:rice,d:dice,m:mice,ais t:tile,p:pile,f:file,ail t:time,d:dime,l1:lime,aim t:tire,w:wire,f:fire,air w:wave,k:cave,sh:shave,ev k:cake,r1:rake,l1:lake,ek g:gate,d:date,k:kate h:hose,r1:rose,n:nose,oz h:hole,p:pole,m:mole,ol Same onset: select foils with same onset, same vowel family (whenever possible, otherwise o.k to select from different vowel family) r1:ride,h:hide,aid 11:line,p:pine,ain rl:rice,d:dice,m:mice,ais t:tile,p:pile,ail t:time,d:dime,l1:lime,aim t:tire,air b:bike,aik k:kite,ait k:cave,ev k:cake,r1:rake,l1:lake,ek d:date,k:kate t:tape,k:cape,ep k:cane,m:mane,en

h:hose,r1:rose,n:nose,oz h:hole,p:pole,m:mole,ol

r1:robe,ob

r1:rope,op h:home,d:dome,om (REMOVED Former Task 4 10/11/99) Segmenting & Elision of Initial Phoneme Dissimilar: select foils from different vowel sound family Similar: select foils from same vowel sound family, different line r1:ride,s:side,h:hide,t:tide,b:bide,l1:lide,n:nide,z:zide,aid 11:line,p:pine,v:vine,m:mine,d:dine,f:fine,s:sine,b:bine,ain f:five,d:dive,l1:live,dz:jive,s:sive,p:pive,z:zive,aiv r1:rice,d:dice,m:mice,n:nice,t:tice,b:bice,w:wice,ais t:tile,p:pile,f:file,m:mile,n:nile,s:sile,k:kile,ail t:time, d:dime, l1:lime, f:fime, r1:rime, z:zime, dz:jime, h:hime, aim t:tire, w:wire, f:fire, h:hire, s:sire, b:bire, dz:jire, p:pire b:bike,p:pike,h:hike,l1:like,r1:rike,v:vike,aik k:kite,b:bite,d:dite,j:yite,l1:lite,n:nite,m:mite,r1:rite,v:vite,ait w:wave,k:cave,sh:shave,r1:rave,p:pave,f:fave,l1:lave,ev k:cake,r1:rake,l1:lake,b:bake,m:make,d:dake,dz:jake,ek m:maze, h:haze, t:taze, f:faze, w:wazw, dz, jaze, l1:laze, b:baze, ez k:cape,t:tape,n:nape,d:dape,l1:lape,z:zape,ep g:gate, m:mate, r1:rate, f:fate, d:date, v:vate, b:bate, et m:made, f:fade, w:wade, t:tade, j:yade, s:sade, ed h:hose,r1:rose,n:nose,p:pose,w:wose,v:vose,b:bose,k:kose,oz h:hole,p:pole,m:mole,f:fole,dz:jole,s:sole,r1:role,d:dole,ol r1:rope, h:hope, n:nope, t:tope, j:yope, z:zope, l1:lope, op r1:robe,d:dobe,t:tobe,f:fobe,h:hobe,p:pobe,ob h:home,d:dome,k:kome,n:nome,p:pome Task 4 Blending and decoding CVC Words Revised 10/11/99 REMOVED words ending in "ck" and "ll" dissimilar: select foils from different vowel family, with different first and last phonemes similar: select from same vowel family, match 1st or 3rd phoneme cap, k, ae, p map, m, ae, p lap, l1, ae, p back, b, ae, k sack,s,ae,k jack, dz, ae, k dad,d,ae,d sad, s, ae, d mad, m, ae, d mat,m,ae,t hat, h, ae, t cat, k, ae, t can, k, ae, n fan, f, ae, n pan,p,ae,n ham, h, ae, m jam,dz,ae,m yam,j,ae,m

bag,b,ae,g

```
rag, r1, ae, g
        tag, t, ae, g
       shell, sh, cap(e), 12
       bell, b, cap(e), 12
       well, w, cap(e), 12
       pen,p,cap(e),n
       ten,t,cap(e),n
       men, m, cap(e), n
       red, rl, cap(e), d
       shed, sh, cap(e), d
       b,b,cap(e),d
       wet, w, cap(e), t
       net,n,cap(e),t
       jet, dz, cap(e), t
       kick, k, cap(i), k
       lick, l1, cap(i), k
       sick, s, cap(i), k
       chin, ch, cap(i), n
THE HIT
       pin,p,cap(i),n
       fin, f, cap(i), n
4
       wig, w, cap(i), g
ŀ÷
       pig,p,cap(i),g
dig,d,cap(i),g
       lip, l1, cap(i), p
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       ship, sh, cap(i), p
14
       zip,z,cap(i),p
l à
       pot, p, a, t
ļè
       cot, k, a, t
į
       hot, h, a, t
       mop, m, a, p
ľ0
       top,t,a,p
       cop,k,a,p
       sock,s,a,k
       rock, r1, a, k
       lock, l1, a, k
       nut, n, ^, t
       hut, h, ^, t
      cut,k,^,t
sun,s,^,n
gun,g,^,n
bun,b,^,n
cub,k,^,b
       tub,t,^,b
       sub,s,^,b
       bug,b,^,g
rug,r1,^,g
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hug,h,^,g
duck,d,^,k gum,g,^,m cup, k, ^, p

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Task 5 (Blending and decoding nonsense words (add word list?) YES 10/11/99
        (Words taken from Task 6 below)
       wap, w, ae, p
       bap, b, ae, p
       fap, f, ae, p
       dack, d, ae, k
       nack, n, ae, k
       vad, v, ae, d
       nad, n, ae, d
       wad, w, ae, d
       zat, z, ae, t
       wat, w, ae, t
       yat, j, ae, t
       lan, l1, ae, n
       han, h, ae, n
       vam, v, ae, m
       nam, n, ae, m
       cam, k, ae, m
       pag, p, ae, g
       cag, k, ae, g
       mab, m, ae, b
       zab, z, ae, b
       wab, w, ae, b
       zell, z, cap(e), 12
       rell, r1, cap(e), 12
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       fen, f, cap(e), n
[]
       len, l1, cap(e), n
(n
       ped, p, cap(e), d
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       sed, s, cap(e), d
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       set, s, cap(e), t
i:
       tet,t,cap(e),t
. į. A
       zick, z, cap(i), k
ļ.
       mick, m, cap(i), k
13
       lin, l1, cap(i), n
       min, m, cap(i), n
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lig, ll, cap(i), g
       sig,s,cap(i),g .
       vip, v, cap(i), p
       mip, m, cap(i), p
       zot, z, a, t
       mot, m, a, t
       fop, f, a, p
       jop, dz, a, p
       mock, m, a, k
       yock, j, a, k
       vock, v, a, k
       sut,s,^,t
       wut, w, ^, t
lun, l1, ^, n
dun, d, ^, n
vub, v, ^, b
       zub, z, ^, b
       fug,f,^,g
       wug, w, ^, g
nuck, n, ^, }
       nuck,n,^,k
jum,dz,^,m
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lum, 11, ^, m
yup,j,^,p
gup,g,^,p
jup,dz,^,p
vup, v, ^, p
hup,h,^,p
 (REMOVED Task 6 10/11/99)
Blending CVCe Words
dissimilar: select foils from different vowel family, with different first and
last phonemes
similar: select from same vowel family, match 1st or 3rd phoneme
ride, rl, ai, d e
side, s, ai, d e
hide, h, ai, d e
line, l1, ai, n_e
pine,p,ai,n_e
vine, v, ai, n e
rice, rl, ai, s_e
dice,d,ai,s_e
mice, m, ai, s e
tile,t,ai,12_e
pile,p,ai,12_e
file,f,ai,l2 e
time, t, ai, m_e
dime,d,ai,m_e
lime, l1, ai, m_e
tire,t,ai,r2_e
wire, w, ai, r2_e
fire,f,ai,r2_e
wave,w e,v_e
cave, k, e, v_e
shave, sh, e, v_e
cake, k, e, k_e
rake, rl, e, k e
lake, l1, e, k e
hose, h, o, z_e
rose, rl, o, z e
nose,n,o,z e
hole, h, o, 12_e
pole,p,o,l2_e
mole, m, o, 12_e
TASK 6 Segmenting VC & CVC words and nonsense words into phonemes
Revised 10/11/99 to remove words ending in "ck" and "ll" and all CVCe words;
sorted words into real and CVC words; added 5 new words to word list.
1 segment:
ae, e, b, k, d, cap(e), i, f, g, h, ai, cap(i), dz, sh, ch, k, 11, m, n, o, a,
p, r1, s, t, u, cap(u), v, w, j, z
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2 segments:

REAL

```
aed, ae, d
       aet, ae, t
       aen, ae, n
       aem, ae, m
       cap(i)n,cap(i),n
       10/11/99 added new words:
       up,^,p
       us,^,s
       on,a,n
       it,cap(I),t.
       ash, ae, sh
       NONSENSE
       aep, ae, p
       aek, ae, k
       aeg, ae, g
       aeb, ae, b
       cap(e)1,cap(e),12
       cap(e)n,cep(e),n
       cap(e)d, cap(e), d
       cap(e)t,cap(e),t
       cap(i)k,cap(i),k
, ...
       cap(i)g,cap(i),g
٦.
       cap(i)p,cap(i),p
ļ, ä
       at,a,t
ap,a,p
       ak,ak
(ñ ·
       ^t ,^,t
^n,^,n
^b,^,b
^g,^,g
ļ. i
ļā
21
ļ, sā
į. ž
       aid,ai,d_e
13
       ain,ai,n_e
10
       ais,ai,s e
       ail,ai,12_e
       aim,ai,m_e
air,ai,r2_e
       aik,ai,k_e
       ait,ai,t_e
       ev,e,v e
       ek,e,k_e
       et,e,t_e
       ep,e,p_e
       en,e,n_e
      oz,o,z_e
       ol,o,12_e
       ob,o,b_e
       op,o,p_e
       om,o,m_e
       3 segments:
       REAL
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lap, l1, ae, p
nap, n, ae, p
gap, g, ae, p
back, b, ae, k
sack, s, ae, k
jack, dz, ae, k
rack, r1, ae, k
dack, d, ae, k
nack, n, ae, k
dad,d,ae,d
sad, s, ae, d
had, h, ae, d
lad, 11, ae, d
mad, m, ae, d
mat, m, ae, t
hat, h, ae, t
fat, f, ae, t
sat, s, ae, t
pat, p, ae, t
cat, k, ae, t
can, k, ae, n
fan, f, ae, n
pan,p,ae,n
van, v, ae, n
ran, rl, ae, n
lan, l1, ae, n
ham, h, ae, m
jam, dz, ae, m
yam, j, ae, m
ram, rl, ae, m
dam,d,ae,m
bag,b,ae,g
rag, rl, ae, g
tag, t, ae, g
nag, n, ae, g
sag,'s,ae,g
pen,p,cap(e),n
ten,t,cap(e),n
hen, h, cap(e), n
den,d,cap(e),n
red, rl, cap(e), d
shed, sh, cap(e), d
bed, b, cap(e), d
fed, f, cap(e), d
led, l1, cap(e), d
chin, ch, cap(i), n
pin,p,cap(i),n
fin,f,cap(i),n
bin,b,cap(i),n
tin,t,cap(i),n
sin,s,cap(i),n
wig,w,cap(i),g
pig,p,cap(i),g
dig,d,cap(i),g
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fig,f,cap(i),g
cab,k,ae,b

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lab, l1, ae, b
        tab, t, ae, b
        nab,n,ae,b
        gab,g,ae,b
        mab, m, ae, b
        wet, w, cap(e), t
        net, n, cap(e), t .
        jet,dz,cap(e),t
        get,g,cap(e),t
        pet,p,cap(e),t
        set,s,cap(e),t
        lip,l1,cap(i),p
        ship, sh, cap(i), p
        zip,z,cap(i),p
        dip,d,cap(i),p
        tip,t,cap(i),p
        pot,p,a,t
        cot, k, a, t
        hot, h, a, t
        not, n, a, t
       bug,b,^,g
rug,rl,^,g
hug,h,^,g
dug,d,^,g
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       mug,m,^,g
ļ. A
        dot,d,a,t
13
       mop; m, a, p
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        top,t,a,p
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       sun,s,^,n
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       gun,g,^,n
       bun,b,^,n
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       run,r1,^,n
fun,f,^,n
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cop, k, a, p
       pop,p,a,p
ľØ
       hop,h,a,p
       bop,b,a,p
[]
       nut,n,^,t
       hut,h,^,t
cut,k,^,t
but,b,^,t
       rut, r1,^,t
       gut,g,^,t
       NONSENSE
       wap, w, ae, p
       bap, b, ae, p
       fap,f,ae,p
       vad, v, ae, d
       nad, n, ae, d
       wad,w,ae,d
       zat, z, ae, t
       wat,w,ae,t
       yat,j,ae,t
       han,h,ae,n
       vam, v, ae, m
```

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tam, t, ae, m
      nam, n, ae, m
      cam, k, ae, m
      pag,p,ae,g
      cag, k, ae, g
      zab, z, ae, b
      wab,w,ae,b
      shell, sh, cap(e), 12
      bell, b, cap(e), 12
      well, w, cap(e), 12
      tell, t, cap(e), 12
      yell, j, cap(e), 12
      zell,z,cap(e),l2
      rell, r1, cap(e), 12
      len, l1, cap(e), n
      fen,f,cap(e),n
      ped,p,cap(e),d
      sed, s, cap(e), d
      tet,t,cap(e),t
      kick, k, cap(i), k
      lick, l1, cap(i), k
      sick, s, cap(i), k
      pick,p,cap(i),k
      tick, stcap(i), k
      wick, w, cap(i), k
      zick, z, cap(i), k
      mick, m, cap(i), k
      lin, l1, cap(i), n
      min, m, cap(i), n
      lig, l1, cap(i), g
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      sig,s,cap(i),g
      vip, v, cap(i), p
      mip, m, cap(i), p
      zot,z,a,t
      mot, m, a, t
      fop,f,a,p
      jop, dz, a, p
      sock, s, a, k
      rock, rl, a, k
      lock, ll, a, k
      dock,d,a,k
      mock, m, a, k
      tock, t, a, k
      yock, j, a, k
      vock, v, a, k
      sut,s,^,t
      wut, w, ^, t
      lun, 11, ^, n
      dun,d,^,n
cub,k,^,b
              , b
      tub,t,
      sub,s,^,b
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hub, h, ^, b

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rub, r1, ^, b
vub, v, ^, b
zub,z,^,b
fug,f,^,g
wug,w,^,g
duck,d,^,k
tuck,t,^,k
puck,p,^,k
muck, m, ^, k
luck, l1, ^, k
nuck, n, ^, k
duck, d, ^, k
gum, g, ^, m
rum, r1, ^, m
sum, s, ^, m
bum, b, ^, m
hum, h, ^, m
jum,dz,^,m
lum, 11, ^, m
cup,k,^,p
pup,p,^,p
yup,j,^,p
gup,g,^,p
jup,dz,^,p
vup, v, ^, p
hup, h, ^, p
ride, r1, ai, d_e
side, s, ai, d_e
hide, h, ai, d_e
tide,t,ai,d_e
bide,b,ai,d_e
lide, l1, ai, d_e
nide, n, ai, d e
zide, z, ai, d_e
line, l1, ai, n_e
pine,p,ai,n_e
vine, v, ai, n_e
mine, m, ai, n_e
dine,d,ai,n_e
fine,f,ai,n_e
sine,s,ai,n_e
bine,b,ai,n_e
five, f, ai, v_e
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dive,d,ai,v\_e live,ll,ai,v\_e jive,dz,ai,v\_e sive,s,ai,v\_e pive,p,ai,v\_e zive,z,ai,v\_e rice,rl,ai,s\_e dice,d,ai,s\_e

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mice, m, ai, s_e
tile,t,ai,12_e
pile,p,ai,12_e
file,f,ai,12_e
pile,p,ai,12_e
tile,t,ai,l2 e
mile,m,ai,12_e
nile,n,ai,12_e
kile,k,ai,l2_e
sile,s,ai,l2_e
time,t,ai,m_e
dime,d,ai,m_e
lime, l1, ai, m_e
fime,f,ai,m_e
rime, rl, ai, m e
zime,z,ai,m_e
jime,dz,ai,m_e
hime,h,ai,m_e
tire,t,ai,r2_e
wire,w,ai,r2_e
fire,f,ai,r2_e
hire,h,ai,r2_e
sire,s,ai,r2_e
bire,b,ai,r2_e
jire, dz, ai, r2_e
pire,p,ai,r2 e
bike,b,ai,k_e
pike,p,ai,k_e
like, ll, ai, k_e
rike,r1,ai,k_e
vike, v, ai, k_e
kite,k,ai,t_e
bite,b,ai,t_e
dite,d,ai,t_e
lite, ll, ai, t_e
nite,n,ai,t_e
mite, m, ai, t_e
rite, r1, ai, t_e
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wave,we,v_e
cave,k,e,v_e
shave,sh,e,v_e
rave,r1,e,v_e
pave,p,e,v_e
fave,f,e,v_e
lave,l1,e,v_e
cake,k,e,k_e
rake,r1,e,k_e
lake,l1,e,k_e
bake,b,e,k_e
make,m,e,k_e
dake,d,e,k_e
jake,j,e,k_e
maze,m,e,z_e
```

vite, v, ai, t\_e

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haze,h,e,z e
 faze, f, e, z_e
 waze,w,e,z_e
 jaze, dz, e, z_e
 laze, l, e, z e
 baze, b, e, z_e
 cape, k, e, p_e
 tape, t, e, p_e
 nape,n,e,p_e
 dape,d,e,p_e
 lape, l1, e, p_e
 zape,z,e,p_e
 gate,g,e,t e
 mate,m,e,t_e
 rate, r1, e, t_e
 fate, f, e, t e
 date,d,e,t e
vate, v, e, t_e
bate, b, e, t_e
hose, h, o, z_e
rose, rl, o, z e
nose, n, o, z_e
pose,p,o,z_e
wose,w,o,z _e
vose, v, o, z_e
bose,b,o,z _e
kose, k, o, z e
hole, h, o, 12 e
pole,p,o,l2_e
mole, m, o, 12 e
fole,f,o,12_e
sole,s,o,l2_e
dole, d, o, 12_e
rope, r1, o, p_e
hope, h, o, p_e
nope, n, o, p_e
tope,t,o,p_e
yope, j, o, p_e
zope,z,o,p_e
lope, l1, o, p_e
robe, r1, o, b_e
dobe, d, o, b_e
tobe, t, o, b e
fobe,f,o,b_e
hobe, h, o, b_e
pobe,p,o,b_e
Task 7 Spelling
Revised 10/11/99: Removed words ending in "ck" and "ll" and a few misc. words
from word list.
(Levels 1, 2 & 3: Spell VC, CVC REAL words)
```

aet,ae,t
aen,ae,n
aem,ae,m

```
cap(i)n,cap(i),n
 cap, k, ae, p
 map, m, ae, p
 lap, l1, ae, p
 nap,n,ae,p
 gap,g,ae,p
 back, b, ae, k
 sack, s, ae, k
 jack,dz,ae,k
 rack, r1, ae, k
 dad, d, ae, d
 sad, s, ae, d
 mad, m, ae, d
 had, h, ae, d
 lad, l1, ae, d
 mat, m, ae, t
 hat, h, ae, t
 fat, f, ae, t
 sat, s, ae, t
pat, p, ae, t
 cat, k, ae, t
can, k, ae, n
fan, f, ae, n
pan, p, ae, n
van, v, ae, n
ran, rl, ae, n
ham, h, ae, m
jam, dz, ae, m
yam, j, ae, m
ram, r1, ae, m
dam, d, ae, m
bag, b, ae, g
rag, rl, ae, g
tag, t, ae, g
nag,n,ae,g
sag, s, ae, g
cab, k, ae, b
lab, l1, ae, b
tab, t, ae, b
nab, n, ae, b
gab, g, ae, b
shell, sh, cap(e), 12
bell, b, cap(e), 12
well, w, cap(e), 12
tell, t, cap(e), 12
yell, j, cap(e), 12
pen,p,cap(e),n
ten,t,cap(e),n
hen, h, cap(e), n
den,d,cap(e),n
red, r1, cap(e), d
shed, sh, cap(e), d
bed, b, cap(e), d
fed, f, cap(e), d
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led, l1, cap(e), d
wet, w, cap(e), t

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net, n, cap(e), t
         jet, dz, cap(e), t
         get,g,cap(e),t
         pet,p,cap(e),t
         kick, k, cap(i), k
         lick, l1, cap(i), k
         sick,s,cap(i),k
        pick,p,cap(i),k
        tick, stcap(i), k
        wick, w, cap(i), k
        chin, ch, cap(i), n
        pin,p,cap(i),n
        fin, f, cap(i), n
        bin,b,cap(i),n
        tin,t,cap(i),n
        sin,s,cap(i),n
        wig, w, cap(i), g
        pig,p,cap(i),g
        dig,d,cap(i),g
        fig,f,cap(i),g
        lip, l1, cap(i), p
1... 1...
1... 1...
        ship, sh, cap(i), p
        zip,z,cap(i),p
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        dip,d,cap(i),p
        tip,t,cap(i),p
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        pot,p,a,t
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        cot, k, a, t
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       hot, h, a, t
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       not, n, a, t
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       dot, d, a, t
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       mop, m, a, p
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       top,t,a,p
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       cop, k, a, p
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       pop,p,a,p
       hop, h, a, p
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       bop,b,a,p
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       sock, s, a, k
       rock, rl, a, k
       lock, ll, a, k
       dock, d, a, k
       tock, t, a, k
       nut,n,^,t
       hut,h,^,t
cut,k,^,t
but,b,^,t
rut,r1,^,t
       gut,g,^,t
       sun,s,^,n
      gun,g,^,n
bun,b,^,n
run,r1,^,n
fun,f,^,n
cub,k,^,b
       tub, t, ^, b
       sub,s,^,b
       hub, h, ^, b
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rub,rl,^,b
 bug,b,^,g
rug,r1,^,g
hug,h,^,g
dug,d,^,g
 mug,m,^,g
 duck,d,^,k
 tuck,t,^,k
puck,p,^,k
muck,m,^,k
luck,l1,^,k
 duck,d,^,k
 gum,g,^,m
rum, r1, ^, m
sum, s, ^, m
bum, b, ^, m
hum, h, ^, m
 cup,k,^,p
 pup,p,^,p
yup,j,^,p
gup,g,^,p
 (Levels 3 & 4 Spell VCe and CVCe words)
 et,e,t_e
 ep,e,p_e
ride,rl,ai,d_e
side,s,ai,d_e
hide,h,ai,d_e
tide, t, ai, d e
bide,b,ai,d e
line, l1, ai, n_e
pine,p,ai,n e
vine,v,ai,n_e
mine, m, ai, n_e
dine,d,ai,n_e
fine, f, ai, n_e
five, f, ai, v_e
dive,d,ai,v_e
live, l1, ai, v_e
jive,dz,ai,v_e
rice, r1, ai, s e
dice,d,ai,s e
nice, n, ai, s_e
mice, m, ai, s_e
tile,t,ai,12_e
pile,p,ai,12_e
file,f,ai,l2_e
pile,p,ai,l2_e
tile,t,ai,12_e
mile, m, ai, 12_e
nile,n,ai,12_e
time,t,ai,m_e
dime,d,ai,m_e
lime, l1, ai, m_e
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rime,r1,ai;m\_e
tire,t,ai,r2\_e

wire,w,ai,r2\_e fire,f,ai,r2\_e hire,h,ai,r2\_e bike,b,ai,k\_e pike,p,ai,k\_e like,l1,ai,k\_e kite,k,ai,t\_e bite,b,ai,t e

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lite, l1, ai, t_e ·
        nite,n,ai,t_e
        rite, rl, ai, t_e
        wave,w e,v_e
        cave, k, e, v_e
        shave, sh, e, v_e
        rave, r1, e, v e
        pave,p,e,v e
        cake, k, e, k e
        rake,r1,e,k_e
        lake, l1, e, k e
        bake,b,e,k_e
        make,m,e,k_e
1.2
        jake, j, e, k e
.]
       maze, m, e, z_e
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       haze, h, e, z_e
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        cape, k, e, p_e
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        tape,t,e,p_e
       nape, n, e, p_e
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       gate,g,e,t_e
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       mate, m, e, t_e
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       rate, r1, e, t_e
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       fate, f, e, t_e
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date, d, e, t_e
hose, h, o, z_e
rose, r1, o, z_e
nose, n, o, z_e
pose,p,o,z_e
hole, h, o, l2 e
pole,p,o,l2_e
mole, m, o, 12_e
dole,d,o,12 e
rope, rl, o, p_e
hope, h, o, p_e
nope,n,o,p_e
robe, r1, o, b_e
(Levels 4, 5 & 6: Spell VC, CVC nonsense words)
aep,ae,p
aed, ae, d
aek,ae,k
aeg, ae, g
aeb, ae, b
cap(e)1,cap(e),12
cap(e)n,cep(e),n
cap(e)d,cap(e),d
cap(e)t,cap(e),t
cap(i)k,cap(i),k
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wut, w, ^, t lun, l1, ^, n

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dun,d,^,n
        vub, v, ^, b
zub, z, ^, b
fug, f, ^, g
wug, w, ^, g
        nuck,n,^,k
        jum, dz, ^, m
        lum, 11, ^, m
yup, j, ^, p
gup, g, ^, p
jup, dz, ^, p
        vup,v,^,p
        hup,h,^,p
        (Levels 7 & 8: Spell VCe, CVCe nonsense words)
        aid,ai,d_e
        ain,ai,n e
        ais,ai,s e
        ail, ai, 12 e
        aim,ai,m_e
        air,ai,r2_e
aik,ai,k_e
        ait,ai,t_e
        ev,e,v e
١, إ
        ek,e,k_e
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       en,e,n_e
oz, o, z_e
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       ol,o,12_e
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       ob,o,b_e
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       op,o,p e
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       om,o,m e
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       lide, l1, ai, d_e
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       nide, n, ai, d_e
13
       zide,z,ai,d_e
      sine,s,ai,n_e
<u>"Õ</u>
       bine,b,ai,n_e
13
       sive, s, ai, v_e
       pive,p,ai,v_e
       zive,z,ai,v_e
       tice,t,ai,s_e
       fice, f, ai, s_e
       bice,b,ai,s_e
       kile, k, ai, 12 e
       sile,s,ai,l2_e
       fime, f, ai, m_e
       zime,z,ai,m_e
       jime, dz, ai, m_e
       hime, h, ai, m_e
       bire,b,ai,r2_e
       jire, dz, ai, r2_e
       pire,p;ai,r2_e
       rike, r1, ai, k_e
       vike, v, ai, k_e
       dite,d,ai,t_e
       mite, m, ai, t_e
       rite, rl, ai, t_e
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vite, v, ai, t e fave, f, e, v\_e lave, l1, e, v e dake, d, e, k e faze,f,e,z\_e waze,w,e,z\_e jaze,dz,e,z\_e laze, l, e, z\_e baze,b,e,z\_e dape, d, e, p e lape, l1, e, p e zape, z, e, p e vate, v, e, t e bate, b, e, t e wose, w, o, z e vose, v, o, z\_e bose, b, o, z\_e kose, k, o, z\_e fole,f,o,l2\_e dole,d,o,12\_e tope,t,o,p e yope, j, o, p\_e zope,z,o,p e lope, l1, o, p\_e dobe, d, o, b e tobe,t,o,b e fobe, f, o, b e hobe, h, o, b\_e. pobe,p,o,b\_e

TASK 8: BLENDING PHONEMES AND DECODING: CVCC WORDS (14)

Learning Objectives: The student will blend four phonemes presented at x second intervals with or without corresponding graphemes into a word and will make a response by selecting from a set of three response choices. The student will decode CVCC words presented with no auditory cues and will make a response by selecting from a set of three response choices. The phonetic saliency of the CC blends will be controlled to facilitate skill development.

High saliency CC = fricative + stop

Low saliency CC = nasal + stop

"Hello. Bog Frogg here." "Let me show you how to play"
A: "d-e-s-k says desk"
A: "Now it's your turn. What word do you hear?"
A&G: "d-e-s-k says desk"
A&G: "Now it's your turn. What word do you hear and see?"
G: "This word is desk"
G: "Now it's your turn. What word do you see?"
No roll-overs on lilypads.

Activity Module 1

Task(8) Presentation Interval Phonetic Saliency # Trials

Cuml. Score

1-Blend phonemes auditory .25 sec high %
2-Blend phonemes auditory 1 sec high %

| -                  |   |         |      |      |               |   |
|--------------------|---|---------|------|------|---------------|---|
|                    | <pre>auditory auditory &amp; visual</pre> |         | high | high | <del>\$</del> | 8 |
| 5-Blend phonemes   | auditory & visual                         | 1 sec   | high |      | 8             |   |
| 6-Blend phonemes   | auditory & visual                         | 2 sec   | high |      | 8             |   |
| 7-Decode CVCC word | ds visual                                 | n/a     | high |      | 8             |   |
| 8-Blend phonemes   | auditory                                  | .25 sec | low  | ·    | <del>%</del>  |   |
| 9-Blend phonemes   | auditory                                  | 1 sec   | low  |      | 8             |   |
| 10-Blend phonemes  | auditory                                  | 2 sec   | low  |      | 8             |   |
| 11-Blend phonemes  | auditory & visual                         | .25 sec |      | low  |               | 8 |
| 12-Blend phonemes  | auditory & visual                         | 1 sec   | low  | •    | 8             |   |
| 13-Blend phonemes  | auditory & visual                         | 2 sec   | low  |      | 8             |   |
| 14-Decode CVCC wor | ds visual                                 | n/a     | low  |      | *             |   |
|                    |   |         |      |      |               |   |

#### Word List:

High Saliency:

nest, best, rest, west, pest, mask, task, bask, disk, risk, mist, list, fist, fast, last, cast, mast, desk, dusk, musk, tusk, raft, gift, lift, sift, left, gasp, lisp, wisp

Low Saliency: pant, lamp, camp, damp, ramp, sand, land, hand, band, bump, lump, hump, milk, tent, went, dent, sent, pump, dump, vent, mint, lint, tint, mend, lend, bend, send, jump

TASK 9: BLENDING PHONEMES AND DECODING: CCVC WORDS (14)

Learning Objectives: The student will blend four phonemes presented at x second intervals with or without corresponding graphemes into a word and will make a response by selecting from a set of three response choices. The student will decode CCVC words presented with no auditory cues and will make a response by selecting from a set of three response choices. The phonetic saliency of the CC blends will be controlled to facilitate skill development.

High saliency CC = fricative + stop or fricative + glide

Low saliency CC = fricative + nasal or fricative + liquid

High saliency = CC blends do not include nasals or liquids

Low saliency = CC blends include nasals and liquids

"Hello. Bog Frogg here." "Let me show you how to play"

A: "s-t-o-p says stop"

A: "Now it's your turn. What word do you hear?"

A&G: "s-t-o-p says stop"

A&G: "Now it's your turn. What word do you hear and see?"

G: "This word is stop"

G: "Now it's your turn. What word do you see?"

No roll-overs on lilypads.

# Activity Module 1 Task(9)

| Task(9)          | Presentation      | Inter   | val  | Phonetic Saliency | # T | rials |
|------------------|-------------------|---------|------|-------------------|-----|-------|
| Cuml. Score      |                   | •       |      | · ·               |     |       |
| 1-Blend phonemes | auditory          | .25 sec | high |                   | 8   |       |
| 2-Blend phonemes | auditory          | 1 sec   | high |                   | 8   |       |
| 3-Blend phonemes |                   | 2 sec   | high | ·                 | ક   |       |
|                  | auditory & visual |         | -    | high              |     | . %   |
|                  | auditory & visual |         | high | _                 | 8   | ı     |
| 6-Blend phonemes | auditory & visual | 2 sec ' | high | ,                 | ક્ર |       |
|                  |                   |         |      |                   |     |       |

| 7-Decode CCVC words visual  | n/a                                  | high              | 8              |
|---|--------------------------------------|-------------------|----------------|
| 8-Blend phonemes auditory<br>9-Blend phonemes auditory<br>10-Blend phonemes auditory<br>11-Blend phonemes auditory & visual | .25 sec<br>1 sec<br>2 sec<br>.25 sec | low<br>low<br>low | 8<br>8<br>8    |
| 12-Blend phonemes auditory & visual 13-Blend phonemes auditory & visual 14-Decode CCVC words visual                         | 1 sec                                | low<br>low<br>low | 95<br>95<br>96 |

#### High Saliency:

stop, step, skip, stab, stud, stub, stun, stem, skin, skit, skid, swim, spin, spit, spot, spud, scab, scan, swam, swum

#### Low Saliency:

Flag, flat, flap, flip, frog, sled, snag, snob, smug, slap, slab, slat, slam, slip, slid, slim, snap, snip

TASK 10: SEGMENTING CC BLENDS AND VCC, CVCC & CCVC WORDS INTO PHONEMES (6) Learning Objective: The student will segment CC blends and VCC, CVCC and CCVC words into phonemes. Auditory feedback will or will not be provided during response. Graphemes will or will not be displayed during response. The phonetic saliency of the CC blends will be controlled to facilitate skill development. (programming note: 80% criterion here)

"Hello. Bog Frogg here. Click on the mouse once for each sound you hear. Let me show you how this is done."

A: "First, listen to the word.... desk. Then, click on the mouse once for each sound in the word, like this...d-e-s-k "  $\,$ 

A: "Now it's your turn."

A&G: "First, listen to the word..... desk. Then, click on the mouse once for each sound in the word, like this...d-e-s-k"

A&G: "Now it's your turn."

G: "First, Listen to the word.... desk. Then, click on the mouse once for each sound in the word, like this...d-e-s-k "

G: "Now it's your turn."

| Activity Module 3<br>Task(10)<br>Trials | Phonetic Saliency | Auditory Feedback | Display Graphemes # |
|---|-------------------|-------------------|---------------------|
| 1-Segment phonemes                      | high              | yes               | no                  |
| 2-Segment phonemes                      | high              | yes               | yes                 |
| 3-Segment phonemes                      | high              | no                | yes                 |
| 4-Segment phonemes                      | low               | yes               | no                  |
| 5-Segment phonemes                      | low               | yes               | Yes                 |
| 6-Segment phonemes                      | · low             | no                | yes                 |

CC

High: st, sk, sp, ft, sw, sc Low: sn, sm ,sl, sr, fl, fr VCC word

High: ask, asp, aft

Low: imp, amp, end, and, ant

CVCC & CCVC words (use words from Tasks 8 & 9)

TASK 11: SPELLING VCC, CVCC & CCVC WORDS (12)

Learning Objective: The student will spell VCC, CVCC and CCVC words by typing letters on the keyboard. Auditory cues and feedback will or will not be available during the encoding response.

"Hello. Bog Frogg here. Let me show you how to play.

A: "First, listen to the word..... stop. Then, use the keyboard to spell the word.

A: "Now it's your turn."

No A: "First, listen to the word.... stop. Then, use the keyboard to spell the word.

No A: "Now it's your turn."

Auditory cues = roll-overs

Auditory Feedback = play sound when typed in by user.

Activity Module 4

;; <u>==</u>

| Task(11) Pho | onetic Saliency A | Auditory Cues | Auditory Feedback | # Trials |
|--------------|-------------------|---------------|-------------------|----------|
| Cuml. Sco    | ore               |               | •                 |          |
| 1-Spell word | high              | yes           | <br>yes           | 8        |
| 2-Spell word | high              | no            | yes               | 8        |
| 3-Spell word | high              | no            | no                | 9        |
| 4-Spell word | low               | yes           | ves               | *        |
| 5-Spell word | low               | no            | ves               | ¥.       |
| 6-Spell word | low               | no            | no                | . 8      |

Use VCC, CVCC, CCVC words from Task 10

Client-Attorney Privilege

#### R & S

#### **Letter Express**

Revised 4/28/99

Revised 7/8/99

Revised 8/3/99 DEVELOPMENT NOTES (J-C)

Revised 8/6/99 Instruction Codes added (TC)

Revised 8/9/99 Minor re-wording of learning objectives for Tasks 4 & 5 and Tasks 10 & 11; Major revision to list of similar and dissimilar phonemes for Tasks 4 & 5 and Tasks 10 & 11; added word lists for Tasks 10-13 to very end of file. (JMW)

Revised 8/20/99 Instruction Codes (TC)

Revised 8/25/99 Added program responses following incorrect answer by user (JMW) \*\*

9/1/99 J-C revised instructions

9/7/99 J-C revised instructions

Revised 9/12/99 Revised word list for Tasks 10-13; added one more level at end of task for Tasks 10-13; changed key word for long vowel e (JMW)

Word Lists for Tasks 10-12 (Former Task 12 has been deleted. Former Task 13 is now Task 12) 12/99 Revisions in bold.

Revised 9/22/99 Additions in bold.

Task 10: Some words removed from list. No new words added.

Task 11: Some words removed from list. New words added for sh, ch, th.

5. Task 12: This task has been deleted from game

Formerly Task 13, now Task 12: Some words deleted. Words re-arranged for added levels of similar and dissimilar sounds. Some new nonsense words added.(JMW)

# TOKEN =→ J-C

Primary Skills:

Auditory and Phoneme Discrimination, Phoneme Identification, Recognition of Sound and Sound Position in Word, Word Closure, Phoneme Segmentation,

Spelling

ACTIVITY MODULE 1: Auditory memory and phoneme/sound-to-letter/letter-to-sound match with variable matrix size.

ACTIVITY MODULE 2: Alphabetic order

ACTIVITY MODULE 3: Alphaphonetics; match sound to letter

ACTIVITY MODULE 4: Type letter that matches sound on keyboard.

ACTIVITY MODULE 5: Selecting beginning, ending, vowel sound and/or letter. Change one letter in word to create a new word.

STEP 1 (116 levels of play; 13 skill sets)

## TASK 1: ALPHABETIC ORDER (6)

<u>Learning Objective</u>: When presented with a letter selected from the beginning, middle or end of the alphabet, the student will identify the next letter of the alphabet by typing a response on the keyboard. Upper case or lower case graphemes will be displayed.

## GAME DESIGN: TASK 1

#### Activity Module 2

Begin round by playing Alphabet song, display letters on screen as they are spoken in song. Clear letters from puffs of smoke. Then, randomly select a starting letter in beginning, middle or ending 1/3 of alphabet. Say name of letter. "A" Prompt user to enter next letter. "Which letter comes after A?" If last correct entry = Z and plays remain in the round of play, prompt "That's the last letter of the alphabet. What's the first letter in the alphabet?"). Continue play with letter A. SCORING CRITERION: TASK I = 80% within round of play.

#### **AUDIO SCRIPT: TASK 1**

IN1B>> Alphabet Song

INTRO1>>"Let's practice the order of the letters of the alphabet using uppercase letters.".(levels 1-3) INTRO2>>"Let's practice the order of the letters of the alphabet using lowercase letters.". (levels 4-6) (Record each letter of alphabet) "A", "B", etc.

IN1A>> Which letter comes after....(on first play of round)

INIE"Type the letter on your keyboard"

IN1C>> "That's the last letter of the alphabet. What's the first letter in the alphabet?"

\*\* Upon incorrect response: Highlight first letter, play audio 'A' followed by highlight of second letter and play audio 'B'

N1D>>M..."comes after"...L

Incorrect answers-no sfx

T - -1. /4\

| = <u>lask (1)</u><br>-Score     | Start Positio | n Grapheme Display | # Trials | Cuml. |
|---------------------------------|---------------|--------------------|----------|-------|
| 7. 1-Identify alphabetic order  | beginning     | upper case         |          |       |
| 2. 2-Identify alphabetic order  | middle        | upper case         |          |       |
| 3-Identify alphabetic order     | end           | upper case         | •        |       |
| 10. 4-Identify alphabetic order | beginning     | lower case         |          |       |
| 11. 5-Identify alphabetic order | middle        | lower case         |          | *     |
| 12. 6-Identify alphabetic order | end           | lower case         |          |       |

# TASK 2: MATCHING SOUNDS WITH LETTERS: LONG VOWELS (8)

<u>Learning Objective</u>: When presented with a phoneme sound, the student will select the corresponding letter from a set of response choices displayed on the screen. An associated word will

or will not be displayed. Auditory cues will or will not be available. In this task, phoneme sounds will be limited to the most common long vowel sound-symbol associations for the 5 vowels of the English alphabet.

#### 13. GAME DESIGN: TASK 2

## Activity Module 3

Begin round with Alphaphonetics song, displaying each letter as its corresponding sound is spoken in the song. Then, gray out those letters that will not be used in the round of play. Present a sound and instruct user to click on corresponding letter(in cloud), one of the "active" letters. When auditory cues available, user is able to roll-over active letters to hear sound.

SCORING CRITERION: TASK 2 = 4/2

#### **AUDIO SCRIPT: TASK 2**

IN2A>> "Let's practice the long vowel sounds"

IN2B>>"Which letter says....

"IN2C>>"as in...

=>>/ju/....'unicorn'"

>>/e/.... 'ape'"

>>/i/..... 'eel' " CHANGE KEY WORD TO "EAGLE" 9/12/99

>>/ai/..... 'ice'"

>>/o/.... 'open'

| Task (2)  **Euml. Score       | Auditory Cu | ue Associated Wor | <u>d</u> | <u>Case</u> | # Trials |
|-------------------------------|-------------|-------------------|----------|-------------|----------|
| 14. 7-Match phoneme & symbol  | yes         | yes               | upper    |             |          |
| 5. 8-Match phoneme & symbol   | no          | yes               | upper    |             |          |
| 6. 9-Match phoneme & symbol   | yes         | no                | upper    |             | •        |
| 17. 10-Match phoneme & symbol | no          | no .              | upper    |             | •        |
| 18. 11-Match phoneme & symbol | yes         | yes               | lower    |             |          |
| 19. 12-Match phoneme & symbol | no          | yes               | lower    |             |          |
| 20. 13-Match phoneme & symbol | yes         | no                | lower    |             |          |
| 21. 14-Match phoneme & symbol | no          | no                | lower    |             |          |

## TASK 3: MATCHING SOUNDS WITH LETTERS: SHORT VOWELS (8)

<u>Learning Objective</u>: When presented with a phoneme sound, the student will select the corresponding letter from a set of response choices displayed on the screen. An associated word will or will not be displayed. Auditory cues will or will not be available. In this task, phoneme sounds will be limited to the most common short vowel sound-symbol associations for the 5 vowels of the English alphabet.

#### 22. GAME DESIGN: TASK 3

#### Activity Module 3

Begin round with Alphaphonetics song, displaying each letter as its corresponding sound is spoken in the song. Then, gray out those letters that will not be used in the round of play. Present a sound and user has to click on corresponding letter, one of the "active" letters. When auditory cues available, user is able to roll-over active letters to hear sound.

SCORING CRITERION: TASK 3 = 4/2

## AUDIO SCRIPT: TASK 3

IN3A>> "Let's practice the short vowel sounds"

IN3B>>"Which letter says....

\*1N3C>>"as in...

>/ae/..... 'apple'"

>>cap/e/.... 'egg'"

>> cap/i/.... 'igloo'"

" >>/a/.... 'ox'"

>>/^/.... 'umbrella'"

Which letter says..... /ae/ cap(e) cap(I) /a/  $/^/$ 

Upon incorrect response (if associated word icon is displayed): Highlight letter, play audio 'ae' followed by highlight of displayed word icon and play audio 'apple'

\*\* Upon incorrect response (if associated word icon is not displayed): Highlight letter, play audio 'ae'

| Task (3)<br>Score             | Auditory Cue | Associated Word | Case # | <u> Trials</u> | Cuml. |
|-------------------------------|--------------|-----------------|--------|----------------|-------|
| 23. 15-Match phoneme & symbol | yes          | yes             | upper  |                |       |
| 24. 16-Match phoneme & symbol | no           | yes             | upper  |                | *     |
| 25. 17-Match phoneme & symbol | yes          | no              | upper  |                | •     |
| 26. 18-Match phoneme & symbol | no           | no              | upper  |                |       |
| 27. 19-Match phoneme & symbol | yes          | yes             | lower  |                |       |
| 28. 20-Match phoneme & symbol | no           | yes             | lower  |                | ·     |



| 29. 21-Match phoneme & symbol | yes | no | lower |
|-------------------------------|-----|----|-------|
| 30. 22-Match phoneme & symbol | no  | no | lower |

TASK 4: MATCHING SOUNDS WITH LETTERS: CONSONANTS & UPPER CASE LETTERS (8) Learning Objective: When presented with a phoneme sound, the student will select the corresponding upper case letter from a set of response choices displayed on the screen. An associated word will or will not be displayed. Auditory cues will or will not be available. Response choices will be phonetically similar or phonetically dissimilar. In this task, phoneme sounds will be limited to the most common sound-symbol associations for the 21 consonant letters of the English alphabet and three common digraphs: sh, ch, th

#### 31. GAME DESIGN: TASK 4

#### **Activity Module 3**

```
Begin round with Alphaphonetics song, displaying each letter as its corresponding sound is spoken
in the song. Then, gray out those letters that will not be used in the round of play. Present a sound
and user has to click on corresponding letter, one of the "active" letters. When auditory cues
available, user is able to roll-over active letters to hear sound.
  SCORING CRITERION: TASK 4 = 4/2
AUDIO SCRIPT: TASK 4
FEIN4A>> "Let's practice the consonant sounds with upper case letters"
 IN4B>>"Which letter says....
 IN4C>>"as in...
IN4D>>/b/.... as in 'bell'"
filN4E>>/k/.... as in 'cat'"
[]IN4F>>/d/.... as in 'dog'"
IN4G>> / f/ .... as in 'fox'"
 IN4H>>/g/.... as in 'gas'"
 IN4I>>/h/.... as in 'hat'"
 IN4J >> /dz/.... as in 'jam'"
 IN4K>>/k/.... as in 'kite'"
 IN4L>> /1/.... as in 'log'"
 IN4M>>/m/.... as in 'mop'"
 IN4N>> /n/.... as in 'net'"
 IN4O>>/p/.... as in 'pig'"
 IN4P>> /kw/.... as in 'queen'"
                                   Display letter Q as Q<sup>U</sup>
 IN4Q>> /r/.... as in 'rabbit'"
 IN4R>>/s/.... as in 'sun'"
 IN4S>> / t/.... as in 'tent'"
 IN4T>> /v/.... as in 'van'"
 IN4U >> /w/.... as in 'wagon'"
```

f, th

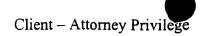
```
IN4V > /ks/.... as in 'ax'"
  IN4W>> /j/.... as in 'yoyo'"
  IN4X>> / z/.... as in 'zebra'"
  IN4Y>>/sh/.... as in "shoe"
  IN4Z >>/ch/.... as in 'cheese"
  IN4ZZ >>/th/.... as in 'thumb"
  ** Upon incorrect response (if associated word icon is displayed): Highlight letter, play audio 'b'
  followed by highlight of displayed word icon and play audio 'bell'
  ** Upon incorrect response (if associated word icon is not displayed): Highlight letter, play audio 'b'
  Special Cases for phoneme only presentation:
 /k/ accept "c" or "k", unless picture displayed; then correct response must correspond with picture
 /dz/if response = g, IN4D "Yes, sometimes letter g says /dz/if but usually letter g says /g/if. Which
 letter usually says /dz/?
 /s/if response = c,IN4E "Yes, sometimes letter c says /s/if but usually letter c says /c/if. Which letter
usually says /s/?
Exclude on same trails (when no associated word):
1432. m n, ng
```

Similar = differs by voicing OR place ONLY
Dissimilar = differs by manner, may also differ by voicing and/or place
Exception: for affricates, similar = differs by voicing only, or manner only, but manner of foils is limited to stop, fricative; dissimilar = differs by manner, other than stop, fricative

Exception: for [kw, ks], similar = either of two phonemes that form sound associated with alphabetic letter; dissimilar = differs in place from either of two phonemes that form sound associated with alphabetic letter.

```
b: [p,d,g], [z, v, 1, r, j, w, m, n]
p: [b,t,k], [s, f, sh, ch, th, l, r, j, w, m, n]
t: [d,p,k], [s, f, sh, ch, th, l, r, j, w, m, n]
d: [t,b,g], [z, v, 1, r, j, w, m, n]
k: [g,p,t], [s, f, sh, ch, th, l, r, j, w, m, n]
g: [k,d,b], [z, v, 1, r, j, w, m, n]
s: [z,f,sh,th], [p,t,k,l,r,j,w,m,n,kw]
z: [s,v], [b,d,g,l,r,j,w,m,n,kw]
f: [v,s,sh,th], [p,t,k,l,r,j,w,m,n,kw]
v: [f,z], [b,d,g,l,r,j,w,m,n,kw]
sh: [s,f,th], [p,t,k,l,r,j,w,m,n,kw]
th: [s,f,sh], [p,t,k,l,r,j,w,m,n,kw]
```

Phoneme: [similar], [dissimilar]: SET 1 for Tasks 4 & 5



ch: [dz,sh,t], [l,r,j,w,m,n] dz: [ch,d], [l,r,j,w,m,n]

l: [r,j,w], [b,d,g,z,v,dz,m,n,ks] r: [l,j,w], [b,d,g,z,v,dz,m,n,ks] j: [l,r,w], [b,d,g,z,v,dz,m,n,ks] w: [l,r,j], [b,d,g,z,v,dz,m,n,ks]

kw: [k,w], [m,n,ch,dz,s,z,f,v,sh,th,h]

ks: [k,s], [ch,dz,l,r,j,w,m,n]

m: [n], [b,d,g,z,v,dz,l,r,j,w,ks,kw] n: [m], b,d,g,z,v,dz,l,r,j,w,ks,kw]

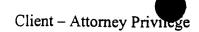
| <u>Task (4)</u>                 | Aud. Cue | Assoc. Word | Choices# Trials | Cuml. Score |
|---------------------------------|----------|-------------|-----------------|-------------|
| 33. 23-Match phoneme & symbol   | yes      | yes         | dissimilar      | ,           |
| 34. 24-Match phoneme & symbol   | yes      | yes         | similar         |             |
| 35. 25-Match phoneme & symbol   | no       | yes         | dissimilar      |             |
|                                 |          |             |                 |             |
| 26-Match phoneme & symbol       | no       | yes         | similar         | •           |
| 36. 27-Match phoneme & symbol   | yes      | no          | dissimilar      |             |
| 37. 28-Match phoneme & symbol   | yes      | no          | similar         |             |
| ្នឹ8. 29-Match phoneme & symbol | no       | no          | dissimilar      |             |
| 30-Match phoneme & symbol       | no .     | no          | similar         |             |

TASK 5: MATCHING SOUNDS WITH LETTERS: CONSONANTS & LOWER CASE LETTERS (8) Learning Objective: When presented with a phoneme sound, the student will select the corresponding lower case letter from a set of response choices displayed on the screen. An associated word will or will not be displayed. Auditory cues will or will not be available. Response choices will be phonetically-similar or dissimilar. In this task, phoneme sounds will be limited to the most common sound-symbol associations for the 21 consonant letters of the English alphabet and three common digraphs: sh, ch, th

39. GAME DESIGN: TASK 5

## Activity Module 3

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Begin round with Alphaphonetics song, displaying each letter as its corresponding sound is spoken in the song. Then, gray out those letters that will not be used in the round of play. Present a sound and user has to click on corresponding letter, one of the "active" letters. When auditory cues available, user is able to roll-over active letters to hear sound.

SCORING CRITERION: TASK 5 = 4/2

#### **AUDIO SCRIPT: TASK 5**

IN5A>> "Let's practice the consonant sounds with lower case letters"

IN5B>>"Which letter says..... (same as Task 4 above)

IN5C>> "as in"

\*\* Upon incorrect response (if associated word icon is displayed): Highlight letter, play audio 'b' followed by highlight of displayed word icon and play audio 'bell'

\*\* Upon incorrect response (if associated word icon is not displayed): Highlight letter, play audio 'b'

Special Cases for phoneme only presentation: (same as Task 4 above)

Phoneme: [similar], [dissimilar] SET 1

(Same as Task 4 above)

|                                 |          |             | •          |          |             |
|---------------------------------|----------|-------------|------------|----------|-------------|
| Task (5)                        | Aud. Cue | Assoc. Word | Choices    | # Trials | Cuml. Score |
| 40. 31-Match phoneme & symbol   | yes      | yes         | dissimilar |          | •           |
| , and                           |          |             |            |          |             |
| 41. 32-Match phoneme & symbol   | yes      | yes         | similar    |          |             |
| <u>.</u> . 4                    |          |             |            |          |             |
| ##42. 33-Match phoneme & symbol | no .     | yes         | dissimilar |          |             |
|                                 |          |             | ,          |          | •           |
| 34-Match phoneme & symbol       | no       | yes         | similar    |          |             |
| 43. 35-Match phoneme & symbol   | yes      | no          | dissimilar |          |             |
|                                 |          | , (i)       | ,          |          |             |
| 44. 36-Match phoneme & symbol   | ves .    | no          | similar    |          |             |
|                                 |          |             |            | •        |             |
| 45. 37-Match phoneme & symbol   | no       | no          | dissimilar |          | •           |
| · ·                             |          | 110         | CISSIMINAL |          |             |
| 38-Match phoneme & symbol       | no       | no          | similar    |          |             |
| oo materi proficille de symbol  | 110      | no          | Silliar    |          |             |

TASK 6: SELECTING LETTERS ON KEYBOARD TO MATCH PHONEME SOUNDS (9)

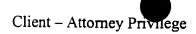
<u>Learning Objective</u>: When presented with a phoneme sound, the student will type the corresponding letter on the keyboard. The grapheme will or will not be displayed on screen to facilitate keyboard response. In this task, phoneme sounds will be limited to the most common sound-symbol associations for the 26 letters of the English alphabet and four common digraphs: th, ch, sh, wh

46. GAME DESIGN: TASK 6

#### a. Activity Module 4

User is instructed to type the letter or letters that represent the sound they hear. Display grapheme = display grapheme in puff of smoke. Display grapheme second puff of smoke in upon keyboard entry.

```
Special Cases for phoneme only presentation:
  /k/ accept "c" or "k"
  dz/ if response = g, IN6D "Yes, sometimes letter g says dz/ but usually letter g says /g/. Which
  letter usually says /dz/?
  /s/if response = c, IN6DE"Yes, sometimes letter c says /s/if but usually letter c says /c/.if
  IN6DFWhich letter usually says /s/?
  /m, n/ /v, thv/ /f, th/ interchangable??
  AUDIO SCRIPT: TASK 6
 INTRO>>"The Letter Express is ready to roll!"
 IN6A>>"Use the keyboard to type the letter or letters of the sound you here."
 DEMO>>"Watch, I'll show you....."
PROMPT>>"Now it's your turn."
IN6C>>"Type the letter or letters that says /ae/"
  "Type the letter that says "/e/"
  "Type the letter that says /b/"
Type the letter that says /k/"
 "Type the letter that says d/"
<sup>±</sup> "Type the letter that says cap/e/"
  "Type the letter that says /i/"
  "Type the letter that says /f/"
"Type the letter that says /g/"
Type the letter that says /h/"
"Type the letter that says cap/i/"
"Type the letter that says /ai/"
 "Type the letter that says /dz/"
 "Type the letter that says /k/"
 "Type the letter that says /1/"
 "Type the letter that says /m/"
 "Type the letter that says /n/"
 "Type the letter that says /a/"
 "Type the letter that says /o/"
 "Type the letter that says / p/"
 "Type the letters that say /kw/"
 "Type the letter that says /r/"
 "Type the letter that says /s/"
 "Type the letter that says /t/"
 "Type the letter that says /^/"
 "Type the letter that says /u/"
```



"Type the letter that says /v/"
"Type the letter that says /ks/"
"Type the letter that says /ks/"
"Type the letter that says /j/"
"Type the letter that says /z/"
"Type the letters that say /sh/"
"Type the letters that say /ch/"
"Type the letters that say /th/"
"Type the letters that say /hw/"

#### SCORING CRITERION: TASK 6 = 4/2

| <u>Task (6)</u>   | Graphemes Displayed | # Trials | Cuml. Score |
|---|---------------------|----------|-------------|
| 39-Type letter for long vowel phoneme   | upper case          |          |             |
| 340-Type letter for long vowel phoneme  | lower case          | •        |             |
| 41-Type letter for long vowel phoneme   | none                |          | •           |
| 42-Type letter for short vowel phoneme  | upper case          |          |             |
| 42-Type letter for short vowel phoneme 43-Type letter for short vowel phoneme | lower case          |          |             |
| 44-Type letter for short vowel phoneme  | none                |          |             |
| 45-Type letter(s) for consonant phoneme                                       | upper case          |          | •           |
| # 46-Type letter(s) for consonant phoneme                                     | e lower case        |          |             |
| 47-Type letter(s) for consonant phoneme                                       | none                |          |             |
|   |                     |          |             |

# TASK 7: MATCHING PHONEME SOUNDS, SOUNDS WITH LETTERS & LETTERS WITH SOUNDS: LONG VOWELS (9)

<u>Learning Objective</u>: When presented with a 2x4, 3x4 or 3x6 matrix the student will recall and match pairs of long vowel phonemes and will recall and match long vowel phonemes with upper case and lower case graphemes in a timed (3 minute) task.

#### AUDIO SCRIPT: TASK 7

INTRO>>"The Letter Express is ready to roll!"

IN7A>>"Click on my puffs of smoke -- to find -- the matching long vowel sounds."

DEMO>>"Watch, I'll show you...."

PROMPT>> "Now it's your turn."

IN7B>> "How many sounds can you match before I have to go?"

IN7C>> "How many sounds can you match with upper case letters before I have to go?"

IN7D>> "How many sounds can you match with lower case letters before I have to go?"

KUDO>>"Good job! Now it's time for me to roll!"

<sup>\*\*</sup> Upon incorrect response: Display (& flash?) correct letter and play audio 'b'

\*\* Upon incorrect response: no audio, no display of correct answer. It's important to delay any audio (sfx, etc.) for 1 full second (maybe 1.5 seconds if that doesn't seem to make the game drag) after either an incorrect or correct response so as not to immediately wipe-out the auditory image held in short term memory

#### **GAME DESIGN: TASK 7**

Engine comes on screen, idles for 3 minutes (time may be adjusted based on field testing), blows puffs of smoke. Game scoring: Counter tracks number of matches: 1 point for match; -1 point if no match when match was previously displayed; If x number of points within 3 minutes, cool animation. Otherwise, trains simply rolls off screen. Performance Scoring: If match and one of pair had previously been displayed = correct; If no match and one of pair had previously been displayed = incorrect. Discard all others from score calculation.

b. Activity Module 1

Match phoneme sounds w/out letters displayed (graphemes = none)

Match phoneme sounds w/ upper case letters displayed (letter displayed on one puff of pair; phoneme played on other puff of pair).

Match phoneme sounds w/ lower case letters displayed (letter displayed on one puff of pair; phoneme played on other puff of pair).

Programming note: Use restrictions on array of sounds as used in Karloons and Calling All Engines.
For example, exclude m & n in same matrix.

SCORING CRITERION: TASK 7 = 80% within round of play.

| Task (7)                                    | Array Size | Graphemes # Trials | Cuml. Score |
|---|------------|--------------------|-------------|
| 48-Recall & match long vowel sounds         | 8          | none               | %           |
| 49-Recall & match long vowel sounds         | 12         | none               | %           |
| 50-Recall & match long vowel sounds         | 18         | none               | %           |
| 51-Recall & match long vowel sound & symi   | bol 8      | upper case         | %           |
| 52-Recall & match long vowel sound & syml   | bol 12     | upper case         | %           |
| 53-Recall & match long vowel sound & symbol | bol 18     | upper case         | %           |
| 54-Recall & match long vowel sound & symbol | pol 8      | lower case         | %           |
| 55-Recall & match long vowel sound & symbol |            | lower case         | %           |
| 56-Recall & match long vowel sound & symbol | ool 18     | lower case         | %           |

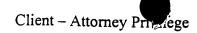
TASK 8: MATCHING PHONEME SOUNDS, SOUNDS WITH LETTERS & LETTERS WITH SOUNDS: SHORT VOWELS (9)

<u>Learning Objective</u>: When presented with a 2x4, 3x4 or 3x6 matrix of phonetically-similar phonemes, the student will recall and match pairs of long vowel phonemes and will recall and match short vowel phonemes with upper case and lower case graphemes in a timed (3 minute) task.

**AUDIO SCRIPT: TASK 8** 

INTRO>>"The Letter Express is ready to roll!"

IN8A>>"Click on my puffs of smoke -- to find -- the matching short vowel sounds."



DEMO>>"Watch, I'll show you....."

PROMPT>>"Now it's your turn."

IN8B>> "How many sounds can you match before I have to go?"

IN8C>> "How many sounds can you match with upper case letters before I have to go?"

IN8D>> "How many sounds can you match with lower case letters before I have to go?"

KUDO>>"Good job! Now it's time for me to roll!"

\*\* Upon incorrect response: no audio, no display of correct answer. It's important to delay any audio (sfx, next stim, etc.) for 1 full second (maybe 1.5 seconds if that doesn't seem to make the game drag) after either an incorrect or correct response so as not to immediately wipe-out the auditory image held in short term memory

#### **GAME DESIGN: TASK 8**

Engine comes on screen, idles for 3 minutes (time may be adjusted based on field testing), blows puffs of smoke. For each correct response, coal drops from chute. Game scoring: Counter tracks . number of matches: 1 point for match; -1 point if no match when match was previously displayed; If x number of points within 3 minutes, cool animation. Otherwise, trains simply rolls off screen. Performance Scoring: If match and one of pair had previously been displayed = correct; If no match and one of pair had previously been displayed = incorrect. Discard all others from score calculation. C. Activity Module 1

Match phoneme sounds w/out letters displayed (graphemes = none)

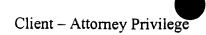
Match phoneme sounds w/ upper case letters displayed (letter displayed on one puff of pair; phoneme played on other puff of pair).

Match phoneme sounds w/ lower case letters displayed (letter displayed on one puff of pair;

phoneme played on other puff of pair).

Programming note: Use restrictions on array of sounds as used in Karloons and Calling All Engines. For example, exclude m & n in same matrix. SCORING CRITERION: TASK 8 = 80% within round of play.

| Task (8)  57-Recall & match short vowel sounds  58-Recall & match short vowel sounds  12  59-Recall & match short vowel sounds  60-Recall & match short vowel sound & symbol  %  61-Recall & match short vowel sound & symbol | 2<br>8<br>8 | Graphemes # Trials<br>none<br>none<br>none<br>upper case | Cuml. Score<br>%<br>%<br>% |
|---|-------------|--|----------------------------|
| % 62-Recall & match short vowel sound & symbol %  | 12<br>18    | upper case   |                            |
| 63-Recall & match short vowel sound & symbol %  | 8           | lower case   |                            |
| 64-Recall & match short yowel sound & symbol %  | 12          | lower case   |                            |



65-Recall & match short vowel sound & symbol

18

lower case

TASK 9: MATCHING PHONEME SOUNDS, SOUNDS WITH LETTERS & LETTERS WITH SOUNDS: CONSONANTS (9)

<u>Learning Objective</u>: When presented with a 2x4, 3x4 or 3x6 matrix of phonetically-similar phonemes, the student will recall and match pairs of consonant phonemes and will recall and match consonant phonemes with upper case and lower case graphemes in a timed (3 minute) task.

#### **AUDIO SCRIPT: TASK 9**

INTRO>>"The Letter Express is ready to roll!"

IN9A>>"Click on my puffs of smoke -- to find -- the matching consonant sounds."

DEMO>>"Watch, I'll show you...."

PROMPT>>"Now it's your turn."

IN9B>> "How many sounds can you match before I have to go?"

IN9C>> "How many sounds can you match with upper case letters before I have to go?"

IN9D>> "How many sounds can you match with lower case letters before I have to go?"

KUDO>> "Good job! Now it's time for me to roll!"

\*\*\* Upon incorrect response: no audio, no display of correct answer. It's important to delay any audio (sfx, etc.) for 1 full second (maybe 1.5 seconds if that doesn't seem to make the game drag) after either an incorrect or correct response so as not to immediately wipe-out the auditory image held in short term memory

#### GAME DESIGN: TASK 9

Engine comes on screen, idles for 3 minutes (time may be adjusted based on field testing), blows puffs of smoke. For each correct response, coal drops from chute. Game scoring: Counter tracks in number of matches: 1 point for match; -1 point if no match when match was previously displayed; If x number of points within 3 minutes, cool animation. Otherwise, trains simply rolls off screen. Performance Scoring: If match and one of pair had previously been displayed = correct; If no match and one of pair had previously been displayed = incorrect. Discard all others from score calculation. d. Activity Module 1

Match phoneme sounds w/out letters displayed (graphemes = none)

Match phoneme sounds w/ upper case letters displayed (letter displayed on one puff of pair; phoneme played on other puff of pair).

Match phoneme sounds w/ lower case letters displayed (letter displayed on one puff of pair; phoneme played on other puff of pair).

Programming note: Use restrictions on array of sounds as used in Karloons and Calling All Engines. For example, exclude m & n in same matrix.

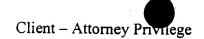
9/12/99 Exclusions: f-th, m-n, c-k, s-z, s-c, j-g

SCORING CRITERION: TASK 9 = 80% within round of play.

<u>Task (9)</u>

Array Size Graphemes # Trials

Cuml. Score



| 66-Recall & match consonant sounds         | . 8  | none       | %      |
|--|------|------------|--------|
| 67-Recall & match consonant sounds         | 12   | none       | %<br>% |
| 68-Recall & match consonant sounds         | 18   | none       | %<br>% |
| 69-Recall & match consonant sound & symbol | 8    | upper case | . %    |
| 70-Recall & match consonant sound & symbol | 12   | upper case | %<br>% |
| 71-Recall & match consonant sound & symbol | 18   | upper case | %<br>% |
| 72-Recall & match consonant sound & symbol | 8    | lower case |        |
| 73-Recall & match consonant sound & symbol | 12   | lower case | %<br>v |
| 74-Recall & match consonant sound & symbol | . 18 | lower case | %      |
| = ==== += === += === == == == == == == =   | . 10 | iowei case | %      |

## 47. TASK 10: IDENTIFYING BEGINNING CONSONANT SOUNDS (13)

<u>Learning Objective</u>: The student will identify the beginning consonant phoneme of a real or nonsense CVC or CVCe word. The student will select a response from a set of three phonetically similar or phonetically dissimilar response choices or by typing a letter on the keyboard. The student will manipulate phonemes and letters to spell new CVC and CVCe words.

```
AUDIO SCRIPT: TASK 10

INTRO>>"The Letter Express is ready to roll!"

IN10A>>"Which puff of smoke -- has the sound you hear -- at the beginning of....."

IN10B>>"Click on the first letter in...."

IN10C>>Use the keyboard to type -- the first letter in...."

IN10D>>"Use the keyboard to change ...(IN10D) to ....."

DEMO>> "Watch, I'll show you....."

** PROMPT>> "Now it's your turn

** Upon incorrect response: Display (and flash?) correct letter and play audio of target letter 'c' followed by all segments 'c-a-t' followed by full word "cat". Highlight each letter as its sound plays.

** Upon incorrect response (manipulate, level 86): Highlight and play audio for each segment of original word 'c-a-t', play full word "cat", followed by highlight and audio for each segment in new word 'b-a-t', play full word 'bat'
```

#### **GAME DESIGN: TASK 10**

Activity Module 5: User is instructed to select from one of three choices (phonemes only, phoneme & grapheme, graphemes only) or to type a response on the keyboard. Display picture of word, allow rollover with slowed audio on playback.

## SCORING CRITERION: TASK 10 = 4/2

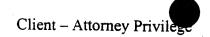
Phoneme: [similar], [dissimilar] SET 2
Similar = differs by voicing OR place ONLY.

Dissimilar = differs by manner, may also differ by voicing and/or place

Exception: for affricates, similar = differs by voicing only, or manner only, but manner of foils is limited to stop, fricative; dissimilar = differs by manner, other than stop, fricative

b: [p,d,g], [z,v,l,r,j,w,m,n]p: [b,t,k], [s,f,sh,ch,th,l,r,j,w,m,n] t: [d,p,k], [s,f,sh,ch,th,l,r,j,w,m,n] d: [t,b,g], [z,v,l,r,j,w,m,n] k: [g,p,t], [s,f,sh,ch,th,l,r,j,w,m,n] g: [k,d,b], [z,v,l,r,j,w,m,n] s: [z,f,sh,th], [p,t,k,l,r,j,w,m,n]z: [s,v], [b,d,g,l,r,j,w,m,n]f: [v,s,sh,th], [p,t,k,l,r,j,w,m,n] v: [f,z], [b,d,g,l,r,j,w,m,n] sh: [s,f,th], [p,t,k,l,r,j,w,m,n] th: [s,f,sh], [p,t,k,l,r,j,w,m,n] h: [f,s,sh,th] [p,t,k,l,r,j,w,m,n]ch: [dz,sh,t], [1,r,j,w,m,n] dz: [ch,d], [l,r,j,w,m,n] l: [r,j,w], [b,d,g,z,v,dz,m,n] r: [l,j,w], [b,d,g,z,v,dz,m,n] i: [1,1,w], [0,a,8,2,v,az,m,n] j: [1,r,w], [b,d,8,z,v,dz,m,n] w: [1 r i] [b,d,8,z,v,dz,m,n] w: [1,r,j], [b,d,g,z,v,dz,m,n]ļ, ž <sup>[--</sup>m: [n], [b,d,g,z,v,dz,l,r,j,w] n: [m], b,d,g,z,v,dz,l,r,j,w ļ, dž 1000

| i ci  |                                  |  |                |     |               |
|---|----------------------------------|--|----------------|-----|---------------|
| Task 10   | <b>Word Type</b>                 | Response Choices   | Foils # Trials | Cum | l. Score      |
| 48. 75-Identify initial phoneme Real  | phone                            | mes dissim   |                |     | <u> ocore</u> |
| 76-Identify initial phoneme<br>77-Identify initial phoneme<br>78-Identify initial phoneme<br>79-Identify initial phoneme<br>% | Real<br>Nonsense<br>Real<br>Real | phonemes<br>phonemes<br>phonemes & graph<br>phonemes & graph |                |     | %<br>%<br>%   |
| 80-Identify initial phoneme<br>%  | Nonsense                         | phonemes & graph   | nemes similar  |     |               |
| 81-Identify initial phoneme   | Real                             | graphemes  | dissimilar     | %   |               |
| 82-Identify initial phoneme   | Real                             | graphemes  | similar        |     | %             |
| 83-Identify initial phoneme   | Nonsense                         | graphemes  | similar        |     | %             |
| 84-Identify initial phoneme   | Real                             | keyboard   | n/a            |     | %             |
| 85-Identify initial phoneme   | Nonsense                         | keyboard   | n/a            |     | %             |
| 86-Manipulate initial phoneme   | real                             | keyboard   | n/a            |     | %             |
| 87-Manipulate initial phoneme   | nonsense                         | keyboard   | n/a            |     | %             |



## TASK 11: IDENTIFYING ENDING CONSONANT SOUNDS (13)

<u>Learning Objective</u>: The student will identify the final consonant phoneme of a real or nonsense frequency CVC word. The student will select a response from a set of three phonetically similar or phonetically dissimilar response choices or by typing a letter on the keyboard. The student will manipulate phonemes and letters to spell new CVC words.

#### **AUDIO SCRIPT: TASK 11**

INTRO>>"The Letter Express is ready to roll!"

IN11A>>"Which puff of smoke -- has the sound you hear -- at the end of....."

IN11B>>"Click on the last letter in...."

IN11BB>>"Click on the last letter in...."

IN11C>>"Use the keyboard to type -- the last letter in..."

IN11D"Use the keyboard to change ... (IN11E)to ....."

DEMO>> "Watch, I'll show you....."

## \_PROMPT>>"Now it's your turn

Upon incorrect response: Display (and flash?) correct letter and play audio of target letter 't' followed by all segments 'c-a-t' followed by full word "cat". Highlight each letter as its sound plays.

\*\* Upon incorrect response (manipulate, level 98): Highlight and play audio for each segment of original word 'c-ae-t', play full word "cat", followed by highlight and audio for each segment in new word 'c-ae-p', play full word 'cap'

### **GAME DESIGN: TASK 11**

Activity Module 5: User is instructed to select from one of three choices (phonemes only, phoneme & grapheme, graphemes only) or to type a response on the keyboard. Display picture of word, allow rollover with slowed audio on playback.

## SCORING CRITERION: TASK 11 =4/2

Phoneme: [similar], [dissimilar] SET 2

(Same as Task 10 above)

| Task 11<br>49. 87-Identify final phoneme   | <u>Word Type</u><br>Real                             | Response Choices phonemes  | Foils<br>dissimilar | # Trials<br>% | Cuml. Score           |
|--|--|--|---------------------|---------------|-----------------------|
| 88-Identify final phoneme<br>89-Identify final phoneme<br>90-Identify final phoneme<br>91-Identify final phoneme<br>92-Identify final phoneme<br>93-Identify final phoneme<br>94-Identify final phoneme<br>95-Identify final phoneme | Nonsense<br>Real<br>Real<br>Nonsense<br>Real<br>Real | phonemes phonemes & graphe phonemes & graphe phonemes & graphe graphemes graphemes graphemes graphemes | emes similai        | r             | %<br>%<br>%<br>%<br>% |

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| 96-Identify final phoneme Real       | keyboard | n/a | . % |
|--------------------------------------|----------|-----|-----|
| 97-Identify final phoneme Nonsense   | keyboard | n/a | %   |
| 98-Manipulate final phoneme real     | keyboard | n/a | %   |
| 99-Manipulate final phoneme nonsense | keyboard | n/a | %   |

## TASK 12: IDENTIFYING VOWELS IN CVCe WORDS (10)

<u>Learning Objective</u>: The student will identify the vowel phoneme of a real or nonsense frequency CVCe word. The student will select a response from a set of three response choices or by typing a letter on the keyboard. The student will manipulate vowel phonemes and letters to spell new CVCe words.

#### **AUDIO SCRIPT: TASK 12**

INTRO>>"The Letter Express is ready to roll!"

IN12A>>"Which puff of smoke -- has the long vowel sound you hear -- in the middle of....."

N12B>>"Click on the vowel in the word....."

N12C>>"Use the keyboard -- to type the long vowel sound you hear -- in the word..."

IN12D>>"Use the keyboard to change ... (IN12E)to ....."

DEMO>>"Watch, I'll show you....."

PROMPT>>"Now it's your turn.

Upon incorrect response: Display (and flash?) correct letter and play audio of target letter 'a' followed by all segments 'c-a-ne' followed by full word "cane". Highlight each letter as its sound plays.

Upon incorrect response (manipulate, level 107): Highlight and play audio for each segment of original word 'c-a-ne', play full word "cane", followed by highlight and audio for each segment in flew word 'c-o-ne', play full word 'cone'

#### **GAME DESIGN: TASK 12**

Activity Module 5: User is instructed to select from one of three choices (phonemes only, phoneme & grapheme, graphemes only) or to type a response on the keyboard. Display picture of word, allow rollover with slowed audio on playback.

## SCORING CRITERION: TASK 12 = 4/2

| Task(12) 50. 99-Identify vowel in CVCe word   | Word Type<br>Real                                | Response Choices phonemes  | # Tria | al <u>s</u> | Cuml. Score |
|---|--|--|--------|-------------|-------------|
| 100-Identify vowel in CVCe word<br>101-Identify vowel in CVCe word<br>102-Identify vowel in CVCe word<br>103-Identify vowel in CVCe word<br>104-Identify vowel in CVCe word | Nonsense<br>Real<br>Nonsense<br>Real<br>Nonsense | phonemes<br>phonemes & graph<br>phonemes & graph<br>graphemes<br>graphemes |        | %           |             |



| 108-Manipulatevowel in CVCe word  | nonsense | keyboard | % |   |
|-----------------------------------|----------|----------|---|---|
| 107-Manipulate vowel in CVCe word | real     | keyboar  | d | % |
| 106-Identify vowel in CVCe word   | Nonsense | keyboard | % | ٠ |
| 105-Identify vowel in CVCe word   | Real     | keyboard | % |   |

## TASK 13: IDENTIFYING VOWELS IN CVC WORDS (10)

<u>Learning Objective</u>: The student will identify the vowel phoneme of a real or nonsense frequency CVC word. The student will select a response from a set of three response choices or by typing a letter on the keyboard. The student will manipulate vowel phonemes and letters to spell new CVC words.

#### **AUDIO SCRIPT: TASK 13**

INTRO>>"The Letter Express is ready to roll!"

IN13A>>"Which puff of smoke -- has the short vowel sound you hear -- in the middle of....."

IN13B>>"Click on the vowel in the word....."

N13C>>"Use the keyboard — to type the short vowel sound you hear — in the word..."

N13D>>"Use the keyboard to change ... (IN13E)to ....."

DEMO>>"Watch, I'll show you....."

PROMPT>>"Now it's your turn.

Upon incorrect response (identify): Display (and flash?) correct letter and play audio of target letter ae' followed by all segments 'c-ae-t' followed by full word "cat". Highlight each letter as its sound plays.

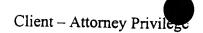
\*\*\* Upon incorrect response (manipulate, level 116): Highlight and play audio for each segment of original word 'c-ae-t', play full word "cat", followed by highlight and audio for each segment in new word 'c-o-t', play full word 'cot'

# GAME DESIGN: TASK 13

Activity Module 5: User is instructed to select from one of three choices (phonemes only, phoneme & grapheme, graphemes only) or to type a response on the keyboard. Display picture of word, allow rollover with slowed audio on playback.

## SCORING CRITERION: TASK 13 =4/2

| Task(13) 51. 108-Identify vowel in CVC word  | Word Type<br>Real  | Response Choices # To phonemes  | rials<br>% | Cuml. Score |
|--|--|---|------------|-------------|
| 109-Identify vowel in CVC word<br>110-Identify vowel in CVC word<br>111-Identify vowel in CVC word<br>112-Identify vowel in CVC word<br>113-Identify vowel in CVC word<br>114-Identify vowel in CVC word | Nonsense<br>Real<br>Nonsense<br>Real<br>Nonsense<br>Real | phonemes phonemes & graphemes phonemes & graphemes graphemes graphemes keyboard |            | %<br>%      |



| 115-Identify vowel in CVC word<br>116-Manipulate vowel in CVC word | . Nonsense .<br>real | keyboard<br>keyboard | % | 04 |
|--|----------------------|----------------------|---|----|
| 117-Manipulate vowel in CVC word                                   | nonsense             | keyboard             | % | %  |

Word Lists for Tasks 10-12 (Former Task 12 has been deleted. Former Task 13 is now Task 12) 19/12/99 Revisions in bold.

Revised 9/22/99 Additions in bold.

Task 10: Some words removed from list. No new words added.

Fask 11: Some words removed from list. New words added for sh, ch, th.

52. Task 12: This task has been deleted from game

Formerly Task 13, now Task 12: Some words deleted. Words re-arranged for added levels of similar and dissimilar sounds. Some new nonsense words added.

TASK 10: List of Real Words (all taken from Slurp & Burp EXCEPT FOR new words marked with >>)
Words in bold taken from Karloon's R&S 1, 9/12/99

/b/

bug,b,^,g

bun,b,^,n bat,b,ae,t

bus,b,^,s

bath,b,ae,th

big,b,cap(I),g

beg,b,cap(e),g

bed,b,cap(e),d

bit,b,cap(I),t

/k/

cat,k,ae,t

can,k,ae,n

cash,k,ae,sh

cap,k,ae,p

cop,k,a,p

/d/
dot,d,a,t
dip,d,cap(I),p
dish,d,cap(I),sh
did,d,cap(I),d
dig,d,cap(I),g
dash,d,ae,sh
dog,d,),g

/f/
fin,f,cap(I),n
fan,f,ae,n
face,f,e,s
fish,f,cap(I),sh
fat,f,ae,t
fun,f,^,n

/g/ gun,g,^,n gum,g,^,m gate,g,e,t\_e gas,g,ae,s get,g,cap(e),t gag,g,ae,g

him,h,cap(I),m
hat,hae,t
hot,h,a,t
hug,h,^,g
hop,h,a,p
hen,h,cap(e),n
had,h,ae,d
ham,h,ae,m
hog,h,),g

/dz/ jet,dz,cap(e),t jab,dz,ae,b jot,dz,a,t job,dz,a,b jug,dz,^,g jog,dz,),g jam,dz,ae,m jut,dz,^,t

/k/ kid,k,cap(I),d kit,k,cap(I),t

# kin,k,cap(I),n /1/ lip,11,cap(I),p leg,11,cap(e),g lap,11,ae,p lad,11,ae,d lap,11,ae,p log,11,),g lid,11,cap(I),d /m/ mop,m,a,p math,m,ae,th map,m,ae,p mug,m,^,g mad,m,ae,d mob,m,a,b mug,m,^,g men,m,cap(e),n mat,m,ae,t /n/ nod,n,a,d net,n,cap(e),t nut,n,^,t hab,n,ae,b hod,n,a,d hun,n,^,n not,n,a,t

pot,p,a,t pig,p,cap(I),g pen,p,cap(e),n peg,p,cap(e),g put,p,cap(u),t pub,p,^,b path,p,ae,th pit,p,cap(I),t pop,p,a,p

/r/
ram,r,ae,m
red,r1,cap(e),d
rug,r1,^,g
rat,r1,ae,t
rag,r1,ae,g
rib,r1,cap(I),b

```
rod,r1,a,d
 rob,r1,a,b
 /s/
 sun,s,^,n
 sip,s,cap(I),p
 sub,s,^,b
 sat,s,ae,t
 sag,s,ae,g
 sob,s,a,b
 sod,s,a,d
 sit,s,cap(I),t
 /t/
ten,t,cap(e),n
top,t,a,p
tub,t,^,b
top,t,a,p
tin,t,cap(I),n
ŧan,t,ae,n
١, ١,
/v/
van,v,ae,n
vet,v,cap(e)t
vat,v,ae,t
vim,v,cap(I),m
vin,v,cap(I),n
/w/
web,w,cap(e),b
wig,w,cap(I),g
wet,w,cap(e),t
wag,w,ae,g
win,w,cap(I),n
wish,w,cap(I),sh
wed,w,cap(e),d
/j/
yes,j,cap(e),s
yen,j,cap(e),n
yap,j,ae,p
yin,j,cap(I),n
yet,j,cap(e),t
/z/
zag,z,ae,g
zig,z,cap(I),g
zip,z,cap(I),p
zit,z,cap(I),t
```

zen,z,cap(e),n zap,z,ae,p

/sh/ shot,sh,a,t ship,sh,cap(I),p shut,sh,^,t shin,sh,cap(I),n shag,sh,ae,g

/ch/ chip,ch,cap(I),p chop,ch,a,p chat,ch,ae,t chum,ch,^,m chap,ch,ae,p chin,ch,cap(I),n chug,ch,^,g

Ath/ thin,th,cap(I),n thud,th,^,d thug,th,^,g (ħ

gum, chum him, vim

job, mob, rob, sob

[,≟ ļ.ā

Added 9/12/99 Real Words for last level of task 10-- changing first letter or letters in word: bat, cat, fat, hat, mat, rat, sat, vat, chat bug, hug, jug, mug, rug, chug, thug bun, fun, gun, nun, sun bath, math, path mod, rod, sod hug, chug, mug, rug, thug bed, wed, red bit, kit, pit, sit, zit beg, peg, leg can, tan, fan, van cash, dash cap, lap, map, yap, zap, chap cop, hop, mop, pop, top, chop dot, hot, jot, not, pot, shot dip, lip, nip, sip, zip, ship, chip dish, fish, wish did, kid, lid fin, kin, win, shin, chin, thin pub, sub, tub

```
get, jet, net, vet, wet, yet
 gag, rag, sag, wag, zag, shag
 hen, men, pen, ten, yen, zen
 had, lad, mad
 jam, ham, ram
 jut, nut, shut
 hog, log, dog
 jab, nab
TASK 10: List of Nonsense Words (all taken from Slurp & Burp)
 New words added in bold 9/12/99
 /b/
 bab,b,ae,b
 bup,b,^,p
 /d/
dup,d,^,p
dob,d,a,b
13
/f/
fet,f,cap(e)t
fim,f,cap(I),m
fud,f,^,d
 į.
/g/
gud,g,^,d
ļ
/h/
hab,h,ae,b
hup,h,^,p
/dz/
jup,dz,^,p
/k/
kep,k,cap(e),p
ket,k,cap(e),t
/1/
lep,l,cap(e),p
/m/
mag,m,ae,g
mit,m,cap(I),t
/n/
```

nim,n,cap(I),m

## nud,n,^,d

```
/p/
 pim,p,cap(I),m
 /r/
 rab,r1,ae,b
 rup,r1,^,p
 /s/
 sab,s,ae,b
 sup,s,^,p
|____v/
yud,v,^,d
vit,v,cap(I),t
ļ. Ā
∄†w/ ⋅
wud,w,^,d
1 4
<u>#</u>j/
yud,j,^,d
it,j,cap(I),t
/z/
zup,z,^,p
zim,z,cap(I),m
zud,z,^,d
/sh/
shup,sh,^,p
shim,sh,cap(I),m
shud,sh,^,d
/ch/
chup,ch,^,p
chet, ch, cap(e), t
chod,ch,a,d
chag,ch,ae,g
```

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## chen,ch,cap(e),n

/th/ thag,th,ae,g thup,th,^,p thod,th,a,d

### Added 9/12/99

NonsenseWords for last level of task -- changing first letter or letters in word: bab, hab, sab, rab bup, dup, hup, jup, rup, zup, shup, chup, thup fet, ket fim, nim, pim, zim, shim fud, gud, nud, vud, wud, jud, zud, shud ket, fet, chet mag, thag, chag mit, vit, yit

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į. š į. 4

## TASK 11: List of VC Real Words (all taken from Slurp & Burp) Words in bold added 9/12/99

/b/

cub,k,^,b

tub,t,^,b

sub,s,^,b

hob,h,a,b

bob,b,a,b

rob,r,a,b

mob,m,a,b

sob,s,a,b

cob,c,a,b

lob,l,a,b

job,j,a,b

rub,r,^,b

tub,t,^,b

cub,c,^,b

sub,s,^,b

hūb,h,^,b

dūb,d,^,b

nub,n,^,b

pub,p,^,b

cab,c,ae,b

lab,l,ae,b

tab,t,ae,b

dab,d,ae,b

jab,j,ae,b

gab,g,ae,b

fab,f,ae,b

nāb,n,ae,b

10

/d/

dad,d,ae,d

sad, s, ae, d

mad,m,ae,d

had,h,ae,d

sad,s,ae,d

mad,m,ae,d

lad,l,ae,d

pad,p,ae,d

fad,f,ae,d

dad,d,ae,d

god,g,a,d rod,r1,a,d cod,k,a,d

pod,p,a,d sod,s,a,d nod,n,a,d red,r1,cap(e),d bed,b,cap(e),d led,11,cap(e),d fed,f,cap(e),d wed,w,cap(e),d shed,sh,cap(e),d did,d,cap(I),d rid,r,cap(I),d hid,h,cap(I),d kid,k,cap(I),d lid,11,cap(I),d bid,b,cap(I),d mid,d,cap(I),d

/g/ hag,b,ae,g rag,rl,ae,g tag,t,ae,g jug,dz,^,g bug,b,^,g hug,h,^,g mug,m,^,g rug,r1,^,g tug,t,^,g chug,ch,^,g thug,th,^,g bag,b,ae,g rag,rl,ae,g łag,t,ae,g wag,w,ae,g sag,s,ae,g nag,n,ae,g zag,z,ae,g shag,sh,ae,g lag,l1,ae,g hag,h,ae,g gag,g,ae,g pig,p,cap(I),g big,b,cap(I),g dig,d,cap(I),g fig,f,cap(I),g wig,w,cap(I),g rig,r,cap(I),g

gig,g,cap(I),g jig,j,cap(I),g

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dog, log, fog, hog, bog, jog, cog dug, rug, jug, chug, thug, tug, hug, mug, lug, pug leg, peg, beg, keg

/m/
gum, sum, chum, hum, run, bum, mum
him, vim, dim, rim
dam, ham, jam, ram, yam, cam, sham

/n/
bun, gun, sun, run, nun, fun, pun
pen, hen, men, ten, den, then
can, man, ran, pan, fan, tan, than, van, ban
win, tin, pin, gin, fin, bin, sin, din, kin, thin, shin, chin

/p/ cap,k,ae,p map,m,ae,p lap,11,ae,p cop, hop, mop, pop, top, bop, chop, shop lip, hip, sip, rip, dip, zip, nip, tip ship, chip map, cap, tap, lap, gap, sap, nap, yap, chap, rap į. d **|/!**/ :mat,m,ae,t hat,h,ae,t cat,k,ae,t bat, cat, fat, hat, rat, pat, sat, mat, that, chat, vat, tat pot, cot, dot, hot, lot, rot, shot, not, got, jot, tot get, set, let, yet, met, wet, jet, net, pet, bet bit, hit, sit, fit, lit, kit, pit, wit but, cut, hut, nut, gut, rut, tut, jut, shut

/sh/ (all new words taken from Juggling Letters)
fish, dish, wish, mish
hush, mush, rush, lush, gush
cash, dash, sash, hash, mash, lash, rash, gash, bash

/ch/
such, much, rich

/th/
bath, math, hath, path, lath, with

53. Task 11

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Added 9/12/99
Real words for last level of task -- changing last letter in word:
hob, hop, hot
rob, rod, rot
cob, cot, cob, cop
pod, pot, pop
sod, sod
lob, lot
job, jot
top, tot
god, got
shot, shop

had, ham, hat, hath sad, sag, sap, sat, sash lad, lab, lag, lap, lash, lath pad, pan, pat, path fad, fan, fat bad, bag, bat, bash, bath eab, can, cap, cat, cam, cash mad, man, map, mat, mash, math dad, dab, dam, dash tab, tag, tan, tap, tat gab, gap nab, nap rag, ran, rat, ram, rap, rash van, vat chap, chat ļ. bed, beg, bet led, leg, let wed, wet peg, pen, pet

did, dig, din, dip, dim, dish rid, rip, rig, rim hid, him, hip, hit kid, kin lid, lip, lit bid, big, bit, bin pin, pit, pig fig, fit, fin, fish wig, win, wit, wish, with kid, kit, kin tin, tip sin, sip, sit ship, shin chip, chin

men, met

```
rub, rug, rum, run, rut, rush tub, tug, tut cub, cut sub, sum, sun, such hub, hug, hum, hut dub, dug nub, nut, nun pub, pug, pun jug, jut chug, chum mug, mum, mush, much gum, gun, gut, gush bum, but, bun
```

```
EASK 11: List of CVC Nonsense Words (all taken from Slurp & Burp)
9/12/99 words in bold added
/b/
vub,v,^,b
zab,z,^,b
mab,m,ae,b
zab,z,ae,b
wab,w,ae,b
gub,g,^,b
leb,l1,cap(e),b
/d/
wad, v, ae, d
nad,n,ae,d
wad,w,ae,d
ped,p,cap(e),d
sed,s,cap(e),d
yud,j,^,d
vid,v,cap(i),d
fod,f,a,d
/g/
lig,11,cap(i),g
sig,s,cap(i),g
pag,p,ae,g
cag,k,ae,g
```

fug,f,^,g wug,w,^,g sug,s,^,g

```
zug,z,^,g
mog,m,a,g
```

/m/
jum,dz,^,m
lum,l1,^,m
vam,v,ae,m
nam,n,ae,m
pem,p,cap(e),m
jom,dz,a,m

/n/
lun,ll,^,n
lan,ll,ae,n
han,h,ae,n
fen,f,cap(e),n
len,ll,cap(e),n
lin,ll,cap(i),n
min,m,cap(i),n
lun,h,^,n
sen,s,cap(e),n
zon,z,a,n

/p/
wap,w,ae,p
bap,b,ae,p
fap,f,ae,p
fap,r,cap(i),p
fop,f,a,p
jop,dz,a,p
yup,j,^,p
gup,g,^,p
jup,dz,^,p
vup,v,^,p
hup,h,^,p
dup,d,^,p
tep,t,cap(e),p

/t/ zat,z,ae,t wat,w,ae,t yat,j,ae,t set,s,cap(e),t

```
tet,t,cap(e),t
zot,z,a,t
mot,m,a,t
sut,s,^,t
wut,w,^,t
fet,f,cap(e),t

new words added 9/22/99
/sh/
kish, lish, sish, nish
dush, nush, wush, wush, dush
tash, vash, zash, fash,
```

ļŁ

ľÀ

/ch/ mich, vuch, nuch, huch, luch

/th/
dath, nath, fath, wath, cath, nith

Task 11 Nonsense Word list for changing last letter in word:

wub, vup, vuch

wug, wut, wush

jum, jup

lum, lun, luch

zug, zub

dup, dush
yup, yud
gup, gub

zat, zab, zash wat, wap, wad, wath vad, vam, vash nad, nam, nath

hup, hun, huch

sut, sug

ped, pem sed, sen, set fen, fet len, leb tet, tep

lig, lin, lish min, mip, mich vip, vid

fop, fod jop, jom zot, zon mot, mog

### DELETE THIS TASK FROM GAME:

TASK 12: List of CVCe Real Words (all taken from Slurp & Burp)

ride,r1,ai,d\_e

side,s,ai,d e

hide,h,ai,d e

line, ll, ai, n e

pine,p,ai,n e

vine, v, ai, n e

rice, r1, ai, s e

dice,d,ai,s e

mice,m,ai,s\_e

tile,t,ai,12 e

pile,p,ai,l2 e

file,f,ai,12 e

time,t,ai,m e

dime,d,ai,m e

lime, 11, ai, m e

tire,t,ai,r2 e

wire, w, ai, r2 e

fire,f,ai,r2 e

wave,w e,v\_e

cave,k,e,v e

shave,sh,e,v\_e

cake,k,e,k e

rake,r1,e,k e

lake, 11, e, k e

hose,h,o,z e

rose,r1,o,z e

```
nose,n,o,z_e
hole,h,o,l2_e
pole,p,o,l2_e
mole,m,o,l2_e
```

```
mole,m,o,12 e
 TASK 12: List of CVCe Nonsense Words (all taken from Slurp & Burp)
 lide,11,ai,d e
 nide,n,ai,d e
 zide,z,ai,d e
 sine,s,ai,n e
 bine,b,ai,n e
 sive, s, ai, v e
 pive,p,ai,v e
 zive,z,ai,v e
 tice,t,ai,s e
 fice, f, ai, s e
 bice, b, ai, s e
 kîle,k,ai,l2 e
 sile,s,ai,12 e
 fime, f, ai, m e
 zime,z,ai,m e
 jime,dz,ai,m e
hime,h,ai,m e
bire,b,ai,r2 e
fire,dz,ai,r2 e
pire,p,ai,r2 e
rike,rl,ai,k e
vike, v, ai, k e
dite,d,ai,t e
mite,m,ai,t_e
rite,r1,ai,t e
vite, v, ai, t e
fave,f,e,v e
lave, 11, e, v e
dake,d,e,k e
faze, f, e, z e
waze,w,e,z e
jaze,dz,e,z e
laze,l,e,z e
baze,b,e,z e
dape,d,e,p e
lape,11,e,p e
zape,z,e,p e
vate, v, e, t e
```

# Client - Attorney Privilege

- bate,b,e,t\_e wose,w,o,z\_e vose,v,o,z\_e bose,b,o,z\_e kose,k,o,z\_e fole,f,o,l2\_e dole,d,o,l2\_e tope,t,o,p\_e yope,j,o,p\_e zope,z,o,p\_e lope,11,0,p\_e dobe,d,o,b\_e tobe,t,o,b\_e fobe,f,o,b e hobe,h,o,b\_e pobe,p,o,b\_e
- that the street was the transfer of the street that the street that the street that

FORMERLY TASK 13 (NOW TASK 12): List of CVC Real Words Short vowel 'a' /ae/

bat, cat, hat, cab, lab, jab, pad, cap, map, tap, rag, hag, dam, ham, pan, fan, tan, tap, chap, pat, tat, had, sad, mad, lad, fad, bad, dad, jab, had, bag, wag, ram, man, ban, map, cap, nap, chap, rap, lag, lap, zap, tab, rat,

Short vowel 'e' /cap(e)/
net, red, pet, let, get, jet, led, fed, bed, beg, hem, men, pen, ten, leg, wet

Short vowel 'i' /cap(I)/
bit, hit, rid, hip, tip, chip, ship, pit, lit, hid, lid, did, hid, big, rig, wig, dim, him, rim, tin, bin, tip, nip, chip, rip, lip, hip, zip, wit, dig

Short vowel 'o' /a/

cot, hot, not, rob, sob, cob, lob, job, hob, rod, pod, cop, hop, mop, top, chop, shop, pot, lot, shot, got, jot, tot, sod, mod, job, mop, cop, hop, rot,

Short vowel 'u' /^/

but, cut, hut, nut, rub, sub, cub, hub, shut, gut, tut, mud, bud, dud, rug, hug, hum, rum, bun, tub, dug,

cap,k,ae,p

1,17

map,m,ae,p

lap,11,ae,p

dad,d,ae,d

sad, s, ae, d

mad,m,ae,d

mat,m,ae,t

hat,h,ae,t

cat, k, ae, t

can,k,ae,n

fan,f,ae,n

pan,p,ae,n

ham,h,ae,m

jam,dz,ae,m

yam, j, ae, m

bag,b,ae,g

rag,r1,ae,g

tag,t,ae,g

pen,p,cap(e),n ten,t,cap(e),n men,m,cap(e),n

```
red,r1,cap(e),d
shed, sh, cap(e), d
bed,b,cap(e),d
wet, w, cap(e), t
net,n,cap(e),t
jet,dz,cap(e),t
chin,ch,cap(i),n
pin,p,cap(i),n
fin,f,cap(i),n
wig,w,cap(i),g
pig,p,cap(i),g
dig,d,cap(i),g
lip,11,cap(i),p
ship,sh,cap(i),p
zip,z,cap(i),p
pot,p,a,t
cot,k,a,t
hot,h,a,t
mop,m,a,p
top,t,a,p
cop,k,a,p
nut,n,^,t
```

hut,h,^,t

cut,k,^,t

sun,s,^,n

gun,g,^,n

bun,b,^,n

cub,k,^,b

tub,t,^,b

sub,s,^,b

bug,b,^,g

rug,r1,^,g

hug,h,^,g

gum,g,^,m

cup,k,^,p

# WORD LIST FOR LAST LEVELS OF TASK: CHANGING VOWELS

bat, bit, but cut, cat, cot hut, hot, hit, hat not, nut, net rob, rub

## Client - Attorney Privilege

sob, sub cob, cab, cub lob, lab job, jab hob, hub rod, red, rid pod, pad cop, cap hop, hip mop, map top, tap, tip chop, chap, chip shop, ship pot, pit, pat, pet lot, let, lit shot, shut got, get, gut jot, jet, jut tot, tat, tut had, hid sad, sod mad, mod, mud lid, lad, led fad, fed bad, bed, bud đầd, did, dud jab, job had, hid bag, big, beg rag, rug, rig wag, wig hag, hug dam, dim ham, hum, him, hem ram, rum, rim man, men pan, pen fan, fin tan, ten, tin ban, bin, bun map, mop cap, cop tap, tip, top nap, nip chap, chip rap, rip leg, lag lip, lap hip, hop zip, zap wit, wet

```
tub, tab
dug, dig
rot, rat, rut
```

FORMERLY TASK 13, now Task 12: List of CVC Nonsense Words (all taken from Slurp & Burp) New words added in bold 9/22/99

```
Short vowel 'a' /ae/
wap, bap, fap, vad, nad, zat, wat, yat, han, vam, nam, pag, cag, mab, zab, wab,
Short vowel 'e' /cap(e)/
fen, len, ped, sed, tet, fet, det, ket, het, ved, deg, nem, sen
Short vowel 'i' /cap(I)/
lin, lig, sig, vip, mip, nid, vit, fip, kip, wip, tig, sig, tig,
54. Short vowel 'o' /a/
zet, mot, fop, jop, fod, zop, fot, fod, jod, rop, wop, wob, tob
Short vowel 'u' /^/
sut, wut, lun, dun, vub, zub, fug, wug, jum, lum, yup, gup, vup
], ≞
ļ
WORD LIST FOR LAST LEVELS OF TASK: CHANGING VOWELS
wap,w,ae,p
bap,b,ae,p
fap,f,ae,p
vad, v, ae, d
had,n,ae,d
zat,z,ae,t
wat, w, ae, t
yat,j,ae,t
han,h,ae,n
vam, v, ae, m
nam,n,ae,m
pag,p,ae,g
cag,k,ae,g
```

mab, m, ae, b zab,z,ae,b wab,w,ae,b fen,f,cap(e),n fet,f,cap(e),t det,d,cap(e),t

ket,k,cap(e),t het,h,cap(e),t ved,v,cap(e),d deg,d,cap(e),g nem,n,cap(e),m sen,s,cap(e),n len,11,cap(e),n ped,p,cap(e),d sed,s,cap(e),d tet,t,cap(e),t lin,11,cap(i),n lig,l1,cap(i),g sig,s,cap(i),g nid,n,cap(I),d vit, v, cap(I), t fip,f,cap(I),p kip,k,cap(I),p wip,w,cap(I),p tig,t,cap(I),g sig,s,cap(I),g fig,t,cap(I),g vip, v, cap(i), p mip,m,cap(i),p zot,z,a,t mot,m,a,t fop,f,a,p jop,dz,a,p fod,f,a,d zep,z,a,p fot,f,a,t jod,dz,a,d rop,r1,a,p wop,w,a,p wob,w,a,b tob,t,a,b sut,s,^,t wut,w,^,t lun,11,^,n dun,d,^,n vub,v,^,b zub,z,^,b fug,f,^,g wug,w,^,g jum,dz,^,m lum, i1,^,m

# Client - Attorney Privnege

yup,j,^,p gup,g,^,p jup,dz,^,p vup,v,^,p

- i. Karloons
- 55. Revised 1/31/99
- 56. Revised 7/29/99

Revised 8/18/99 incorporated new game design ideas from team meeting; removed Activity #4 (JMW)

- 57. Revised 8/24/99 added words & instructions (LHD)
- 58. Revised 8/30/99 re-ordered sequence of tasks, revised instructions (JMW)
- 59. Revised 9/6/99 added word lists; inserted new tasks and reduced number total number of tasks
- 60. from 26 to 18 (JMW)

Revised 9/17/99 Updated specs following development team meeting: revised description of Activity Modules; Removed 6 levels from Task 8; Shortened text for column heading in Tasks 8, 13, 14, 15, 16, 17, 18; Changed column heading from "wpm" to "response interval" and changed duration of response intervals in Tasks with Activity Module1; implemented /c/ for /k/ when /k/ phoneme is spelled with letter 'c'; decision made to hold instructions/demo of task until prototype developed and beta testing indicates need; added notes and script for incorrect responses in all modules; changed criteria of module1 from 4/2 to 80%; changed criteria of module 3 from 4/2 to 3/2; addressed issue of handling no responses in modules 5 & 6 (JMW)

Revised 10-21-99 More detailed description to Sorting and Darts & Balloons Activities; Strike-out some words from word list in Task 1; Separated Task 1 into two identical tasks, but each drawing from different word lists. Separated (former) Task 2 into two identical tasks, but with each drawing from different word lists. Strike-out some words from word lists (check all word lists for strike-outs); Separated (former) Task 3 into two identical tasks, but with each drawing from different word lists. Modified instructions in Task 7 & Task 8; Re-organized and added words to (former) Task 9; Added semantic instructions to (former) Task 9; Deleted and added some new words in (former) Task 10; Modified instructions in (former) Task 12; Removed (former) Task 13

9/21 added instruction labels (Tc)

9/24 J-C added Jan's revisions

9/26 J-C reorganized & renamed module numbers

10/6 J-C edited instructions

Player: (Player Name)

Game:

<u>Primary Skills:</u> Auditory Attention, Vigilance, Discrimination, Short Term Memory; Phonological Segmentation, Phonological Identification, Rhyming, Phonological Sequencing; Morphological Segmentation and Identification; Letter Recognition; Sound-Symbol Correspondence; Decoding; Sight Recognition; Visual Orthographic Memory; Reading Fluency; Semantic Word Classification.

Activity Module1: Sorting Task. Karloon pulls word card out of his pants. Blank card for auditory only presentations. Card with printed word for auditory + visual and visual only presentations. Holds up card with word written on it. User clicks on Karloon's right shoe if word belongs in group on right of screen, clicks on left shoe if word belongs in group on left of screen. FLASH SHOES WHEN REFERRING TO EACH IN INSTRUCTIONS. Scoring criteria = 80% correct within round of play to advance. A score of less than 50% results in decrease of level of play. If correct, place printed word card in correct group, play word, and receive happy clown face. If incorrect, (user clicks on wrong shoe or does not respond within response interval) place printed word card in correct group, play word, FLASH FRAME AROUND CHART WHEN PLACING WORD ON CORRECT CHART AFTER INCORRECT RESPONSE - and receive sad clown face. At end of round, read all words on the left chart to reinforce learning of target pattern. HIGHLIGHT WORD/CARD AS EACH WORD IS READ Distribution of words: minimum of 5 target words (5 non-target words) and maximum of 8 target words (2 non-target words) within round of play. Randomly select a target sound for each round of play, sample without replacement.

Activity Module 2: Darts & Balloons. User instructed to click when they hear/see target word. FLASH DART WHEN REFERRING TO IT IN INSTRUCTIONS. Then scan 3x3 matrix of balloons. User clicks to fire dart. If correct, dart hits target and balloon bursts. If incorrect, dart misses target. Show correct response / flash target word on card Karloon is holding. DO NOT FLASH WORD, SIMPLY DISPLAY. If no response within response interval, drop dart and show correct response / flash target word on card. 4/2 scoring.

Activity Module 3: Matrix Maze. Present 4x4 matrix of boxes. Give directions. User clicks on top left box to begin maze. Present word for first box. Highlight 2 adjacent boxes / gray out other boxes. User rolls-over highlighted boxes to hear word. Clicks to select response. If correct, continue on. If incorrect click, end this maze and start another. Each maze = 1 trial in round of ten trials. If user gets all the way through maze, they get a ball for Karloon to juggle at end of round. If incorrect, (user clicks on wrong square or does not complete maze in time allowed) no ball. Pile of ten balls next to

Karloon at beginning of round, If incorrect response or user doesn't complete maze, ball from top of pile rolls-off screen. If they do complete maze, ball placed in Karloon's hand to be juggled at end of round. Target words are hard coded into maze. Foil words vary. Criteria: 3/2. If auditory presentation level, play audio on roll-over. At all levels, play audio on selection of response.

# TASK 1: SORTING WORDS BY INITIAL CONSONANT SOUND: SINGLE CONSONANTS (9)

<u>Learning Objective</u>: The student will sort words based on initial consonant sound and single consonant letter when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance with visual presentations.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

HELLO>>"Hi boys & girls.

START>> Let's find all the words that start with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT"I got this one" PLAY"You have to be quick to play this game! Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE"Stay awake now." Continue round of play.

At end of round: **BEGIN**"Let's read all the words that begin with /p/." Highlight and play all words on left chart.

| <u>Task (1)</u> :      | Presentation | Visual Cue  | Response Interval |
|------------------------|--------------|-------------|-------------------|
| # <u>Trials</u> Score  |              | <del></del> |                   |
| 1-Sort Beg. Consonants | auditory     | n/a         | 2 seconds         |

| 2-Sort Beg. Consonants | auditory          | n/a | 1 second    |
|------------------------|-------------------|-----|-------------|
| 3-Sort Beg. Consonants | auditory          | n/a | 0.5 seconds |
| 4-Sort Beg. Consonants | auditory + visual | yes | 2 seconds   |
| 5-Sort Beg. Consonants | auditory + visual | yes | 1 second    |
| 6-Sort Beg. Consonants | auditory + visual | yes | 0.5 seconds |
| 7-Sort Beg. Consonants | visual            | no  | 2 seconds   |
| 8-Sort Beg. Consonants | visual            | no  | 1 second    |
| 9-Sort Beg. Consonants | visual            | no  | 0.5 seconds |

### Word List:

/c/ cat, eube, cake, cave, cone, cape, can, cash, call, cap, cop, cat, can, came, cob /d/ dice, dot, dime, dock, dip, date, dish, dab, dine, dame, dub, did, dig, ding, dash /f/ fin, fan, face, fine, fade, fox, fall, fish, fat, fig, fade, fell, fake, fun

/g/ <del>gal,</del> gun, gum, <del>gate,</del> gas, gap, <del>gash, gape,</del> gill, gull, gush, get, gag, game, <del>gale, gong</del>

/h/ hall, him, home, hide, hat, hive, hot, hug, hop, hen, hill, hem, had, hog, hope

/dz/ joke, jack, jet, jig, jab, <del>jade,</del> jot, job, jug, <del>jade,</del> June, jog, jam, <del>Jane,</del> jut

/b/ back, bug, bike, bun, bat, bus, bath, bell, bass, big, bed, bit, bake, bite

/k/ kid, kite, kick, kiss, kit, kin, kill, Kate, Ken

/l/ lake, lime, lip, lock, line, lap, lobe, late, lame, lad, lap, lob, log, lane, lid /m/ mop, map, mug, maze, mate, mine, make, mote, mad, mid, mob, mug, men, mat, mole

/n/ net, note, nut, nab, nope, null, nod, nun, not, nip, nod, Ned, nose, name, Nile

/p/ pot, pig, pen, pipe, <del>pot, pane,</del> put, pile, pill, <del>pike, pane</del>, pun, pub, pit, pop

/r/ rock, rake, <del>robe</del>, rose, red, rope, rug<del>, rate,</del> rat, rag, rib, rod, rob, ring, rut

/s/ sun, sock, sat, sip, same, sub, side, same, same, sat, sag, sob, sit, Sam, site

/t/ ten, top, take, time, tack, tub, top, tape, tame, tine, tone, tap, tin, tad, tan

/v/ van, vine, vet, vote, vane, vile, vat, vim, vin, vice

/w/ web, well, wig, wet, wag, win, wish, wed, wake, wire, wade, wall, will

/j/ yes, yen, yap, yoke, <del>yoke,</del> yang, yep, yin, yet, yell, yin

/z/ zag, zig, zone, zip, zit, zen, zap

Foils: from any line list other than line list containing target word.

# TASK 2: SORTING WORDS BY INITIAL CONSONANT SOUND: CONSONANT DIGRAPHS (9)

<u>Learning Objective</u>: The student will sort words based on initial consonant sound and consonant digraphs when a series of words is presented at a rate of 30 wpm, 45 wpm

and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance with visual presentations.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

**HELLO>>**"Hi boys & girls.

START>> Let's find all the words that start with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT"I got this one" PLAY"You have to be quick to play this game! Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE"Stay awake now." Continue round of play.

At end of round: BEGIN"Let's read all the words that begin with /p/." Highlight and play all words on left chart.

| Task (2): #Trials Score | <u>Presentation</u> | Visual Cue | Response Interval |
|-------------------------|---------------------|------------|-------------------|
| 1-Sort Beg. Consonants  | auditory            | n/a        | 2 seconds         |
| 2-Sort Beg. Consonants  | auditory            | n/a        | 1 second          |
| 3-Sort Beg. Consonants  | auditory            | n/a        | 0.5 seconds       |
| 4-Sort Beg. Consonants  | auditory + visual   | yes        | 2 seconds         |
| 5-Sort Beg. Consonants  | auditory + visual   | yes        | 1 second          |
| 6-Sort Beg. Consonants  | auditory + visual   | yes        | 0.5 seconds       |
| 7-Sort Beg. Consonants  | visual              | no         | 2 seconds         |

8-Sort Beg. Consonants visual

no 1 second

9-Sort Beg. Consonants

visual

no 0.5 seconds

#### Word List:

/sh/ shot, ship, shut, shake, shade, shine, shack, shell, shin, shape, shag /ch/ chip, chop, chat, chum, chap, chin, chore, chick, check, chill, chug /th/ thin, thud, thick, thug, thumb, thank, thing, think, thong Foils: from any line list other than line list containing target word.

### (FORMER TASK 2)

TASK 3: SORTING WORDS BY WORD ENDING: SHORT VOWEL RIMES ENDING IN SINGLE CONSONANTS (9)

<u>Learning Objective</u>: The student will sort words based on word rime when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance with visual presentations.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

HELLO>>"Hi boys & girls.

START>> Let's find all the words that start end with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

**RIGHT>>**Click on my right shoe to put the words on the right side.

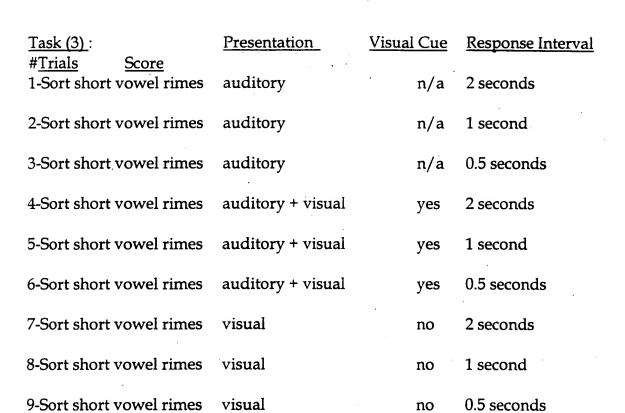
GO>> Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: **GOT**"I got this one" **PLAY**"You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE "Stay awake now." Continue round of play.

At end of round: END "Let's read all the words that end with /aep/." Highlight and play all words on left chart.



### Word List:

/aet/ at, bat, cat, fat, hat, rat, pat, sat, mat, that, chat, vat, tat /at/ pot, cot, dot, hot, lot, rot, shot, not, got, jot, tot /^g/ jug, bug, dug, hug, mug, rug, tug, chug, thug /ap/ op, cop, hop, mop, pop, top, bop, chop, shop /aeg/ bag, rag, tag, wag, sag, nag, zag, shag, lag, hag, gag /cap(I)g/ pig, big, dig, fig, wig, rig, gig, jig /cap(I)p/ lip, hip, sip, rip, dip, zip, nip, tip ship, chip /aed/ ad, had, sad, mad, lad, pad, fad, bad, dad, Thad /aep/ map,cap, tap, lap, gap, sap, nap, yap, chap, rap /cap(e)t/ get, set, let, yet, met, wet, jet, net, pet, bet /cap(e)d/ ed, red, bed, led, fed, Ned, Ted, wed, shed /cap(I)d/ id, did, rid, hid, kid, lid, bid, mid /cap(I)t/ it, bit, hit, sit, fit, lit, kit, pit, wit /ab/ hob, bob, rob, mob, sob, cob, lob, job, <del>fob,</del> hob /ad/ god, rod, cod, pod, sod, nod /ag/ dog, log, fog, hog, bog, jog, cog- CHECK FOR DIALECT ISSUE /^b/ rub, tub, cub, sub, hub, dub, nub, pub /^t/ but, cut, hut, nut, gut, rut, tut, jut, shut /aeb/ cab, lab, tab, dab, jab, gab, fab, nab /^g/ dug, rug, jug, chug, thug, tug, hug, mug, lug, pug /cap(e)g/ leg, peg, beg, keg, Meg, reg

```
/^n/ un, bun, gun, sun, run, nun, fun, pun,
/^m/ gum, sum, chum, hum, run, bum, mum
/cap(e)n/ en, pen, hen, men, ten, Ben, den, yen, then, Ken
/aem/ am, Sam, dam, ham, jam, ram, yam, cam, sham
/aen/ an, can, man, ran, Dan, pan, Jan, fan, tan, than, van, ban
/cap(I)m/ im, him, vim, Tim, dim, Kim, rim
/cap(I)n/ in, win, tin, pin, gin, fin, bin, sin, din, kin, thin, shin, chin
/ar/ car, far, bar, jar, tar, par, char, mar,
```

Foils: from any line list other than line list containing target word.

TASK 4: SORTING WORDS BY WORD ENDING: SHORT VOWEL RIMES ENDING IN CONSONANT DIGRAPHS (9)

<u>Learning Objective</u>: The student will sort words based on word rime when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance with visual presentations.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

**HELLO>>**"Hi boys & girls.

START>> Let's find all the words that start end with ...

**PUT>>...** and put them over here on the left.

**OTHER>>**All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT"I got this one" PLAY"You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE "Stay awake now." Continue round of play.

At end of round: END "Let's read all the words that end with /aep/." Highlight and play all words on left chart.

| <u>Task (4)</u> :  | <u>Presentation</u> | <u>Visual Cue</u> | Response Interval |
|--|---------------------|-------------------|-------------------|
| # <u>Trials</u> <u>Score</u><br>1-Sort short vowel rimes | auditory            | n/a               | 2 seconds         |
| 2-Sort short vowel rimes                                 | auditory            | n/a               | 1 second          |
| 3-Sort short vowel rimes                                 | auditory            | n/a               | 0.5 seconds       |
| 4-Sort short vowel rimes                                 | auditory + visual   | yes               | 2 seconds         |
| 5-Sort short vowel rimes                                 | auditory + visual   | yes               | 1 second          |
| 6-Sort short vowel rimes                                 | auditory + visual   | yes               | 0.5 seconds       |
| 7-Sort short vowel rimes                                 | visual              | no                | 2 seconds         |
| 8-Sort short vowel rimes                                 | visual              | no                | 1 second          |
| 9-Sort short vowel rimes                                 | visual              | no                | 0.5 seconds       |
| Word List:   |                     |                   |                   |

New words added 9/24/99

/aeth/ bath, math, hath, wrath, path, lath

/cap(I)sh/ fish, dish, wish mish, kish, gish

/^sh/ hush, mush, rush, lush, wush, gush

/^ch/-such, much, vuch, nuch, huch, luch

/aesh/ ash, cash, dash, sash, hash, mash, lash, rash, gash, bash

Foils: from any line list other than line list containing target word.

# (FORMER TASK 3)

TASK 5: SORTING WORDS BY FINAL CONSONANT SOUND: SINGLE CONSONANTS (9)

<u>Learning Objective</u>: The student will sort words based on final consonant sound and single consonant letter when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance with visual presentations.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

HELLO>>"Hi boys & girls.

START>> Let's find all the words that start end with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set.....Go!"

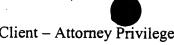
On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT "I got this one" PLAY "You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP "Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE "Stay awake now." Continue round of play.

At end of round: END "Let's read all the words that end with /p/." Highlight and play all words on left chart.

| Task (5): #Trials Score 1-Sort End. Consonants | Presentation      | Visual Cue | Response Interval |
|--|-------------------|------------|-------------------|
|  | auditory          | n/a        | 2 seconds         |
| 2-Sort End. Consonants                         | auditory          | n/a        | 1 second          |
| 3-Sort End. Consonants                         | auditory          | n/a        | 0.5 seconds       |
| 4-Sort End. Consonants                         | auditory + visual | yes        | 2 seconds         |
| 5-Sort End. Consonants                         | auditory + visual | yes        | 1 second          |
| 6-Sort End. Consonants                         | auditory + visual | yes        | 0.5 seconds       |
| 7-Sort End. Consonants                         | visual            | no         | 2 seconds         |
| 8-Sort End. Consonants                         | visual            | no         | 1 second          |



9-Sort End. Consonants visual

0.5 seconds no

#### Word List:

```
/b/ cab, cob, rib, fib, rub, tub, dab, sub, lab, nab, dub, pub
/d/ cod, mad, mud, red, bed, led, lad, shed, nod, sad, fed, bid
/f/ none
/g/ bag, nag, tag, big, pig, tug, rug, shag, chug, thug, wig, leg
/h/ none
/dz/ none
/k/ none
/m/ sum, hum, gum, rim, dim, ham, jam, ram, sham, chum, lam, dam, hem
/n/ ten, hen, pen, pan, can, man, tin, chin, shin, thin, men, yin, fun, bun
/p/ cap, tap, hip, ship, chip, cup, dip, pep, lip, lap, gap, bop
/r/ fir, her, sir, her, per, car, bar, par, jar, far
/t/ hot, pat, mat, cot, nut, net, pet, rot, rat, bit
/v/ none
/x/ none; /w/ none; /y/ none
```

Foils: from any line list other than line list containing target word.

# TASK 6: SORTING WORDS BY FINAL CONSONANT SOUND: CONSONANT DIGRAPHS (9)

Learning Objective: The student will sort words based on final consonant sound and consonant digraphs when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance with visual presentations.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

HELLO>>"Hi boys & girls.

START>> Let's find all the words that start end with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown-face.

On failure to respond within time interval: GOT "I got this one" PLAY "You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP "Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE "Stay awake now." Continue round of play.

At end of round: END "Let's read all the words that end with /p/." Highlight and play all words on left chart.

| <u>Task (6)</u> :<br># <u>Trials</u> Score | Presentation      | Visua | al Cue | Response Interval |
|--|-------------------|-------|--------|-------------------|
| 1-Sort End. Consonants                     | auditory          |       | n/a    | 2 seconds         |
| 2-Sort End. Consonants                     | auditory          | •     | n/a    | 1 second          |
| 3-Sort End. Consonants                     | auditory          |       | n/a    | 0.5 seconds       |
| 4-Sort End. Consonants                     | auditory + visual |       | yes    | 2 seconds         |
| 5-Sort End. Consonants                     | auditory + visual |       | yes    | 1 second          |
| 6-Sort End. Consonants                     | auditory + visual |       | yes    | 0.5 seconds       |
| 7-Sort End. Consonants                     | visual            |       | no     | 2 seconds         |
| 8-Sort End. Consonants                     | visual            |       | no     | 1 second          |
| 9-Sort End. Consonants                     | visual            |       | no     | 0.5 seconds       |

### Word List:

/sh/ wish, dish, fish, mush, hush, rush, push, lush, lash, dash, hash, rash /ch/ much, such, rich, which

/th/ bath, math, both, with, lath, Beth, Seth, moth, path, hath Foils: from any line list other than line list containing target word.

## (FORMER TASK 4)

TASK 7: SORTING WORDS BY SEMANTIC CATEGORY: COLORS, NUMBERS, SHAPES (27)

<u>Learning Objective</u>: The student will sort words into categories of colors, numbers, shapes when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

HELLO>>"Hi boys & girls.

START>> Let's find all the COLOR words that start with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT "I got this one" PLAY "You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP "Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE "Stay awake now." Continue round of play.

At end of round: IN4A "Let's read all the color words." Highlight and play all words on left chart.

HELLO>>"Hi boys & girls.

IN4B>>Let's find all the words that are numbers and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>> Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>>Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT>>"I got this one" PLAY>>"You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP>>"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end

round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE>>"Stay awake now." Continue round of play.

At end of round: IN4B1>>"Let's read all the number words." Highlight and play all words on left chart.

HELLO>>"Hi boys & girls.

IN4C>>Let's find all the words that are shapes and put them over here on the left.

OTHER>> All the other words will go over here on the right.

LEFT>> Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>>Get ready, set....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP>>"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE>>"Stay awake now." Continue round of play.

On failure to respond within time interval: GOT>>"I got this one" PLAY>>"You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

At end of round: IN4C1>>"Let's read all the shape words." Highlight and play all words on left chart.

| Task (7):  #Trials Score  1- Sort Color words  2-Sort Color words  3-Sort Color words       | auditory          | Visual Cue<br>n/a<br>n/a<br>n/a | Response Interval  2 seconds 1 second 0.5 seconds |
|---|-------------------|---------------------------------|---|
| <ul><li>4- Sort Color words</li><li>5-Sort Color words</li><li>6-Sort Color words</li></ul> | auditory + visual | yes<br>yes<br>yes               | 2 seconds<br>1 second<br>0.5 seconds              |
| 7-Sort Color words<br>8-Sort Color words<br>9-Sort Color words                              | visual            | no<br>no<br>no                  | 2 seconds<br>1 second<br>0.5 seconds              |



| 10- Sort Number words | auditory          | n/a | 2 seco | onds        |
|-----------------------|-------------------|-----|--------|-------------|
| 11-Sort Number words  | auditory          | n/a | 1 seco | ond         |
| 12-Sort Number words  | auditory          | n/a | 0.5 se | conds       |
| 13- Sort Number words | auditory + visual | yes | 2 seco | onds        |
| 14-Sort Number words  | auditory + visual | yes | 1 seco | ond         |
| 15-Sort Numbers words | auditory + visual | yes | 0.5 se | conds       |
| 16-Sort Number words  | visual            | no  | 2 seco | onds        |
| 17-Sort Number words  | visual            | no  | 1 seco | ond         |
| 18-Sort Number words  | visual            | no  | 0.5 se | conds       |
| 19- Sort Shape words  | auditory          |     | n/a    | 2 seconds   |
| 20-Sort Shape words   | auditory          |     | n/a    | 1 second    |
| 21-Sort Shape words   | auditory          |     | n/a    | 0.5 seconds |
| 22- Sort Shape words  | auditory + visual |     | yes    | 2 seconds   |
| 23-Sort Shape words   | auditory + visual |     | yes    | 1 second    |
| 24-Sort Shape words   | auditory + visual |     | yes    | 0.5 seconds |
| 25-Sort Shape words   | visual            | ,   | no     | 2 seconds   |
| 26-Sort Shape words   | visual            |     | no .   | 1 second    |
| 27-Sort Shape words   | visual            |     | no     | 0.5 seconds |

## Word List & Cues:

<sup>\*\*</sup>Colors (display in corresponding color): green, yellow, red, black, brown, white, blue, purple, orange, pink

<sup>\*\*</sup>Numbers (display corresponding digit): zero, one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve

<sup>\*\*</sup>Shapes (display corresponding shape): square, circle, rectangle, triangle, oval, star, moon, arrow, heart, diamond

(FORMER TASK 5)

TASK 8: SORTING WORDS BY SEMANTIC CATEGORY: ANIMALS, OBJECTS & PEOPLE (27)

<u>Learning Objective</u>: The student will sort words into categories of animals, objects and people when a series of words is presented at a rate of 30 wpm, 45 wpm and 60 wpm. Words will be presented in auditory only, auditory + visual, or visual only format. A visual cue will or will not be provided to facilitate performance.

Criteria: 80% correct within round of play to advance; drop level of play if less than 50% Activity Module1

HELLO>>"Hi boys & girls.

START>> Let's find all the words that are animals start with ...

PUT>>... and put them over here on the left.

OTHER>>All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>> Get ready, set....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval:GOT>> "I got this one" PLAY>> "You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP>> "Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE>> "Stay awake now." Continue round of play.

At end of round: IN5A "Let's read all the animal words." Highlight and play all words on left chart.

HELLO>>"Hi boys & girls.

IN5B>> Let's find all the words that are objects and put them over here on the left.

OTHER>> All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side...

**RIGHT>>**Click on my right shoe to put the words on the right side.

GO>>Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond within time interval: GOT>> "I got this one" PLAY>> "You have to be quick to play this game!" Place printed word on CORRECT chart. Say word-Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP>>"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE>>"Stay awake now." Continue round of play.

At end of round: **IN5B1** "Let's read all the object words." Highlight and play all words on left chart.

# HELLO>>"Hi boys & girls.

IN5C>>Let's find all the words that are people and put them over here on the left.

OTHER>> All the other words will go over here on the right.

LEFT>>Click on my left shoe to put the words on the left side.....

RIGHT>>Click on my right shoe to put the words on the right side.

GO>>Get ready, set.....Go!"

On correct response: Place printed word on chart. Say word. Receive Happy clown face. On incorrect response: Place printed word on CORRECT chart. Say word. Receive sad elown face.

On failure to respond within time interval: GOT>>"I got this one" PLAY>>"You have to be quick to play this game!" Place printed word on CORRECT chart. Say word. Receive sad clown face.

On failure to respond more than 2x in a row: SLEEP>>"Hey, are you sleeping'? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. AWAKE>>"Stay awake now." Continue round of play.

At end of round: IN5C1 "Let's read all the people words." Highlight and play all words on left chart.

| <u>Task (8)</u> :                                    | <u>Presentation</u> | Visual Cue | Respo | nse Interval |
|--|---------------------|------------|-------|--------------|
| # <u>Trials</u> <u>Score</u><br>1- Sort Animal words | auditory            |            | n/a   | 2 seconds    |
| 2-Sort Animal words                                  | auditory            |            | n/a   | 1 second .   |
| 3-Sort Animal words                                  | auditory            |            | n/a   | 0.5 second   |
| 4- Sort Animal words                                 | auditory + vi       | isual      | yes   | 2 seconds    |

| 5-Sort Animal work  | ds    | audit | tory + visual     | yes | 1 seco | ond         |
|---------------------|-------|-------|-------------------|-----|--------|-------------|
| 6-Sort Animal wor   | ds    | audit | tory + visual     | yes | 0.5 se | cond        |
| 7-Sort Animal work  | ds    | visua | al                | no  | 2 seco | onds        |
| 8-Sort Animal word  | ds    | visua | al                | no  | 1 seco | ond         |
| 9-Sort Animal word  | ds    | visua | 1                 | no  | 0.5 se | conds       |
| 10- Sort Object wor | ds    | audit | cory              | n/a | 2 seco | onds        |
| 11-Sort Object word | ds    | audit | cory              | n/a | 1 seco | onds        |
| 12-Sort Object word | ds    | audit | ory               | n/a | 0.5 se | conds       |
| 13- Sort Object wor | ds    | audit | ory + visual      | yes | 2 seco | onds        |
| 14-Sort Object word | ds    | audit | ory + visual      | yes | 1 seco | ond         |
| 15-Sort Object word | is    | audit | ory + visual      | yes | 0.5 se | conds       |
| 16-Sort Object word | is ·  | visua | 1                 | no  | 2 seco | onds        |
| 17-Sort Object word | ls    | visua | 1                 | no  | 1 seco | ond         |
| 18-Sort Object word | is    | visua | i                 | no  | 0.5 se | conds       |
| 19-Sort People      | words |       | auditory          |     | n/a    | 2 seconds   |
| 20-Sort People      | words |       | auditory          |     | n/a    | 1 second    |
| 21-Sort People      | words |       | auditory          |     | n/a    | 0.5 seconds |
| 22- Sort People wor | ds    | audit | ory + visual      | yes | 2 seco | onds        |
| 23-Sort People      | words |       | auditory + visual |     | yes    | 1 second    |
| 24-Sort People      | words | ,     | auditory + visual |     | yes    | 0.5 seconds |
| 25-Sort People      | words |       | visual            |     | no     | 2 seconds   |

26-Sort People words visual no 1 second
27-Sort People words visual no 0.5 second

#### Word List & Cues:

- \*\*Animals (display corresponding graphic): dog, cat, cow, horse, pig, rabbit, bird, fish, sheep, goat, chicken, zebra, monkey, bear, mouse, snake, giraffe, lion, tiger, duck, elephant, dinosaur, squirrel
- \*\*Objects (display corresponding graphic): book, chair, desk, bed, table, house, tree, cake, flower, father, ball, shoe, shirt, door, window, car, truck, bus, cookie, wagon, doll, train, dress, hat, cup, plate, plane, boat, school, house, store, grass, tree, sun, moon, star, cloud, rain, water, rock, hill, crayon, letter, radio, pen, pencil, scissors, chair, desk \*\*People (display corresponding graphic): man, woman, boy, girl, teacher-M, doctor-F, children, mother, nurse-F, baby, grandma, grandpa, police-F, farmer-M, waiter-F, cashier-M, librarian-F, lifeguard-F, mailman-M, fireman-M, cook-M

(FORMER TASK 6)

TASK 9: SIGHT WORD RECOGNITION & READING FLUENCY: HIGH FREQUENCY SIGHT WORDS (15)

<u>Learning Objective</u>: Following visual+auditory, visual-only or auditory-only visual-only presentation of a target word, the student will identify the same word in a series of words auditorily or visually presented at a rate of 30 wpm, 45 wpm and 60 wpm. The visual display of the target word will or will not remain on screen to facilitate performance.

Criteria: 4/2

Activity Module 2

Visual + auditory presentation of target word with Auditory Series:

HELLO>>"Hi boys & girls.

TWS>>This word says ... 'the'.

HEAR>>Use your mouse to click on the dart when you hear this word.

GO>> Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box.

Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box.

Repeat and flash the word.

On failure to respond within time interval: MISS "We missed that one." Repeat and

flash word. Display graphic in response box.

On failure to respond more than 2x in a row: HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. ATTN>> "Pay attention now." Continue round of play.

Visual + auditory presentation of target word with Visual Series:

**HELLO>>**"Hi boys & girls.

TWS>>This word says 'the'.

SAME>> Click on the dart when you see the same word on one of the balloons.

GO>>Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>> "We missed that one." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: HELLO?>>"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of

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play. If user responds to continue play, place printed word on CORRECT chart. Say word. Receive sad clown face. ATTN>>"Pay attention now." Continue round of play.

Visual presentation of target word with Visual Series:

HELLO>>"Hi boys & girls. (Show target word).

TARGET>> Click on the dart when you see this word on one of the balloons.

GO>> Get ready, set....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box.

Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>> "We missed that one." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Receive sad clown face.

**HELLO?>>** "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, **ATTN>>** "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Auditory presentation of target word with Visual Series:

HELLO>>"Hi boys & girls.

SEE>> Click on the dart when you see the word 'new'

BALLOON>>...on one of the balloons.

GO>>Get ready, set....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box.

Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word

On failure to respond within time interval: MISS>> "We missed that one." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Receive sad-clown face.

**HELLO?>>**"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, **ATTN>>**"Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

#### Word List:

| a     | cold  | grow | may  | said  | too   |
|-------|-------|------|------|-------|-------|
| about | come  | had  | me   | saw   | try   |
| after | could | has  | much | say   | two   |
| again | cut   | have | must | see   | under |
| all   | did   | he   | my   | seven | up    |

| always  | do    | help   | myself | shall    | upon   |
|---------|-------|--------|--------|----------|--------|
| am      | does  | her    | never  | she      | us     |
| an      | done  | here   | new    | show     | use    |
| and     | don't | him    | no     | sing     | very   |
| any     | down  | his    | not    | sit      | walk   |
| are     | draw  | hold   | now    | six      | want   |
| around  | drink | hot    | of     | sleep    | warm   |
| as      | eat   | how    | off    | small    | was    |
| ask     | eight | hurt   | old    | so       | wash   |
| at      | every | I      | on     | some     | we     |
| ate     | fall  | if     | once   | soon     | well   |
| away    | far   | in     | one    | start    | went   |
| be      | fast  | into   | only   | stop     | were   |
| because | find  | is     | open   | take     | what   |
| been    | first | it     | or     | tell     | when   |
| before  | five  | its    | our    | ten      | where  |
| best    | fly   | jump   | out    | thank    | which  |
| better  | for   | just   | over   | that     | white  |
| big     | found | keep   | own    | the      | who    |
| black   | four  | kind   | pick   | their    | why    |
| blue    | from  | know   | play   | them     | will   |
| both    | full  | laugh  | please | then     | wish   |
| bring   | funny | let    | pretty | there    | with   |
| brown   | gave  | light  | pull   | these    | work   |
| but     | get   | like   | put    | they     | would  |
| buy     | give  | little | ran    | think    | write  |
| by      | go    | live   | read   | this     | yellow |
| call    | goes  | long   | red    | those    | yes    |
| came    | going | look   | ride 🦿 | three    | you    |
| can     | good  | made   | right  | to       | your*  |
| carry   | got   | make   | round  | today    |        |
| clean   | green | many   | run    | together |        |
|         |       |        |        |          |        |

|                              | <u>Present</u>    | <u>Hold</u>   | Prese         | <u>nt</u>   |
|------------------------------|-------------------|---------------|---------------|-------------|
| <u>Task (9)</u> :            | <u>Target</u>     | <u>Target</u> | <u>Series</u> | <u>Rate</u> |
| # <u>Trials</u> <u>Score</u> |                   | •             |               |             |
| 1-Recognize word             | visual + auditory | yes           | auditory      | 60 wpm      |
| 2-Recognize word             | visual + auditory | yes           | auditory      | 45 wpm      |

| 3-Recognize word  | visual + auditory | yes | auditory | 30 wpm |
|-------------------|-------------------|-----|----------|--------|
|                   |                   |     |          |        |
| 4-Recognize word  | visual + auditory | yes | visual   | 60 wpm |
| 5-Recognize word  | visual + auditory | yes | visual   | 45 wpm |
| 6-Recognize word  | visual + auditory | yes | visual   | 30 wpm |
| 7-Recognize word  | visual + auditory | no  | visual   | 60 wpm |
| 8-Recognize word  | visual + auditory | no  | visual   | 45 wpm |
| 9-Recognize word  | visual + auditory | no  | visual   | 30 wpm |
| 10-Recognize word | visual            | no  | visual   | 60 wpm |
| 11-Recognize word | visual            | no  | visual   | 45 wpm |
| 12-Recognize word | visual            | no  | visual   | 30 wpm |
| 13-Recognize word | auditory          | n/a | visual   | 60 wpm |
| 14-Recognize word | auditory          | n/a | visual   | 45 wpm |
| 15-Recognize word | auditory          | n/a | visual   | 30 wpm |
|                   |                   |     |          |        |

## (FORMER TASK 7)

TASK 10: MATCHING ENDING CONSONANT SOUNDS WITH BEGINNING CONSONANT SOUNDS: SINGLE CONSONANTS & CONSONANT DIGRAPHS (12) Learning Objective: Following presentation of a target word, the student will select a word that begins with a sound that matches the final sound of the target word by selecting from two auditory-only, auditory + visual or visual-only response choices. When visual response choices are available, visual cues will or will not be provided to facilitate response. The task will be untimed or timed with 20 seconds or 10 seconds allowed for response in the timed task.

Criteria: 3/2

61. Activity Module 3

#### Instruction:

IN7A>> "Listen to the first word. Then find a second word - that begins with the same sound you heard - at the end of the first word."

IN7A2>> In this game, you're going to match the ending letter of one word with the beginning letter of the next word.

IN7A3>> "Start over here!"

Untimed: **UT>>**"Take all the time you need"

Timed: **TIMED10>>**" "You have 10 seconds on the clock. **TIMED20>>**" "You have 20 seconds on the clock

TRY2 "Try to find all the words before the time runs out."

On correct response: display karloon's hat inside box. In last box of maze, display hat with flower.

On correct response: OH>>"oh-oh!" or OPS >>"oops"..... TRY>>Let's try another one."

On completion of maze: Play all target words in maze.

On failure complete maze within time interval: TU>> "Time's up. Let's try another one."

WORD LIST (CHECK WITH MATTHEW RE: HOW TO CODE FOR ENDING SOUND AND BEGINNING SOUND)

```
/b/ bug, bun, bat, bus, bath, big, bed, bit
/b/ cab, cob, rib, fib, rub, tub, dab, sub, lab, nab, dub, pub
/c/ cat, can, cap, cop, cat, can, cob
/c/ FINAL = NONE
/d/ dot, dip, dish, dab, dub, did, dig, dash
/d/ cod, mad, mud, red, bed, led, lad, shed, nod, sad, fed, bid
/f/ fin, fan, fish, fat, fig, fad, fun
/g/ gal, gun, gum, gas, gap, gash, gush, get, gag,
/g/ bag, nag, tag, big, pig, tug, rug, shag, chug, thug, wig, leg
/h/ him, hat, hot, hug, hop, hen, hem, had, hog
/dz/ jet, jig, jab, jot, job, jug, jog, jam, jut
/k/ kid, kit, kin, Ken
/1/ lip, lap, lad, lap, lob, log, lid
/l/ pal, gal
/m/ mop, map, mug, mad, mid, mob, mug, men, mat
/m/ sum, hum, gum, rim, dim, ham, jam, ram, sham, chum, lam, dam
/n/ net, nut, nab, nod, nun, not, nip, nod, Ned
/n/ ten, hen, pen, pan, can, man, tin, chin, shin, thin, men, yin
/p/ pot, pig, pen, pot, put, pun, pub, pit, pop
/p/ cap, tap, hip, ship, chip, cup, dip, pep, lip, lap, gap, bop
/r/ red, rug, rat, rag, rib, rod, rob, rut
/r/ fir, her, sir, her, per, car, bar, par, jar, far
```

```
/s/ sun, sock, sat, sip, same, sub, side, sane, same, sat, sag, sob, sit, Sam, site /s/ gas, bus

/t/ ten, top, tub, top, tap, tin, tad, tan
/t/ hot, pat, mat, cot, nut, net, pet, rot, rat, bit

/v/ van, vet, vat, vim, vin

/w/ web, wig, wet, wag, win, wish, wed

/j/ yes, yen, yap, yep, yin, yet, yin

/z/ zag, zig, zone, zip, zit, zen, zap
/z/ FINAL = NONE

/sh/ shot, ship, shut, shin, shag
/sh/ wish, dish, fish, mush, hush, rush, push, lush, lash, dash, hash, rash

/ch/ chip, chop, chat, chum, chap, chin, chug
/ch/ much, such, rich, which

/th/ thin, thud, thug
/th/ bath, math, both, with, lath, Beth, Seth, moth, path, hath
```

| •               |        |           |            |              |
|-----------------|--------|-----------|------------|--------------|
| Task (10):      | A-Play | V-Display | Visual Cue | Time Allowed |
| # <u>Trials</u> | Score  |           |            |              |
| 1-Match Cons.   | yes    | no        | n/a        | unlimited    |
| %               |        |           |            |              |
| 2-Match Cons.   | yes    | no        | n/a        | 20 seconds   |
| %               |        | •         |            | •            |
| 3-Match Cons.   | yes    | no        | n/a        | 10 seconds   |
| %               | *      | •         | ·          |              |
| •               |        |           |            | ·            |
| 4-Match Cons.   | yes    | yes       | yes .      | unlimited    |
| %               |        | •         |            |              |
| 5-Match Cons.   | yes    | yes .     | yes        | 20 seconds   |
| %               |        |           |            |              |
| 6-Match Cons.   | yes    | yes       | yes        | 10 seconds   |
| %               | -8-    | •         |            |              |

| 7-Match Cons. % | no   | yes | yes | unlimited  |
|-----------------|------|-----|-----|------------|
| 8-Match Cons. % | , no | yes | yes | 20 seconds |
| 9-Match Cons. % | no   | yes | yes | 10 seconds |
| 10-Match Cons.  | no   | yes | no  | unlimited  |
| 11-Match Cons.  | no   | yes | no  | 20 seconds |
| 12-Match Cons.  | no   | yes | no  | 10 seconds |

### (FORMER TASK 8)

TASK 11: MATCHING SHORT VOWEL SOUNDS (12)

<u>Learning Objective</u>: Following presentation of a target word, the student will select a word containing the same short vowel sound from two auditory-only, auditory + visual or visual-only response choices. When visual response choices are available, visual cues will or will not be provided to facilitate response. The task will be un-timed or timed with 20 seconds or 10 seconds allowed for response in the timed task.

# Activity Module 3

Instruction: **IN8A>>**"Let's see if you can find all the words that have the short vowel sound...."

Untimed: **UT>>**"Take all the time you need"

Timed: **TIMED10>>**" "You have 10 seconds on the clock. **TIMED20>>**" "You have 20 seconds on the clock

TRY2 "Try to find all the words before the time runs out."

On correct response: display karloon's hat inside box. In last box of maze, display hat with flower.

On correct response: OH>> "oh-oh!" OPS>> "oops"

On completion of maze: Play all target words in maze.

On failure complete maze within time interval: TU>> "Time's up. Let's try another one."

#### Word List

/ae/ cat, hat, map, bat, man, fan, can, van, cash, chat, vat, gag, shag, rag, nap, chap, yap, mash, dash

/E/ web, pen, red, bed, vet, ten, peg, led, yen, hen, men, fed, led, wed, shed

/I/ fin, pig, lip, wig, bib, pin, ship, chin, chip, zip, chip, <del>yin,</del> lid, kid, rid, <del>vim,</del> him, rim, wish, dish

/a/ pot, mop, dot, top, pot, shop, rot, cot, shot, lot, sob, rob, bob, cod, rod, sod, nod, job

/^/ jug, sun, bug, bun, mug, bus, gum, rug, nut, mush, such, cub, dub, rub, hush, mush, rush

Foils: from any line list ABOVE other than line list containing target word.

| <u>Task (11)</u> : <u>A</u>           | -Play                                 | <b>V-</b> Display | Visual Cue | Time Allowed |
|---------------------------------------|---------------------------------------|-------------------|------------|--------------|
| # <u>Trials</u>                       | <u>Score</u>                          |                   |            |              |
| 1-ID vowel phoneme                    | yes                                   | no                | n/a        | unlimited    |
| % 2-ID vowel phoneme                  |                                       | no                | 2/2        | 20 agam da   |
| 2-1D vower priorieme                  | yes                                   | no                | n/a        | 20 seconds   |
| 3-ID vowel phoneme                    | yes                                   | no                | n/a        | 10 seconds   |
| 76                                    |                                       |                   |            |              |
| 4-ID vowel phoneme                    | yes                                   | yes               | yes        | unlimited    |
| %                                     |                                       |                   |            |              |
| 5-ID vowel phoneme                    | yes                                   | yes               | yes        | 20 seconds   |
| 62. 6-ID vowel pho                    | neme yes                              | yes               | yes        | 10 seconds   |
| % % % % % % % % % % % % % % % % % % % | •                                     | yes               | yes        | To seconds   |
|                                       | e e e e e e e e e e e e e e e e e e e |                   |            |              |
| 7-ID vowel phoneme<br>%               | no                                    | yes               | yes        | unlimited    |
| 8-ID vowel phoneme %                  | no                                    | yes               | yes        | 20 seconds   |
| 9-ID vowel phoneme                    | no                                    | yes               | yes        | 10 seconds   |
| , /0                                  |                                       |                   |            |              |
| 10-ID vowel phoneme                   | no                                    | yes               | no         | unlimited    |
| 10-ID vowel phoneme                   |                                       | •                 | no         | unlimited    |
| 10-ID vowel phoneme                   |                                       | yes               |            |              |

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## (FORMER TASK 9)

TASK 12: MATCHING WORD-FINAL MORPHEMES (12)

<u>Learning Objective</u>: Following presentation of a target word, the student will select a word containing the same word-final morpheme from two auditory-only, auditory + visual or visual-only response choices. When visual response choices are available, visual cues will or will not be provided to facilitate response. The task will be untimed or timed with 20 seconds or 10 seconds allowed for response in the timed task.

**Activity Module 3** 

10-20-99

ADD INTRO TO SEMANTICS:

Begin round with instructions.

HELLO>> "Hi boys & girls.

WORDS>> "Let's talk about the ends of words.

TELLS>> "The end of a word tells you something about what the word means."

IN11A>> For example, ...."cat"

IN11A1>> means ... "one cat" (SHOW PICTURE OF CAT)---

IN11A2>>"catS" ....

IN11A3>> "means more than one .....cat" (SHOW PICTURE OF CATS)

IN11B>>For example, "dish"

IN11B1>>means "one dish" (SHOW PICTURE OFDISH) ---

IN11B2>>"dishES"

IN11B3>>means "more than one dish" (SHOW PICTURE OF DISHES)

**HELLO>>** "Hi boys & girls."

**WORDS>>** Let's talk about the ends of words.

**TELLS>>** The end of a word tells you something about what the word means." For example,

IN12A >>"CookS ...means SOMETHING IS HAPPENING right now....

**IN12A1>>** Alex cookS right now." (show graphic)

IN12A2 >> "CookING means SOMETHING IS HAPPENING right now....

IN12A3>>Alex is cookING right now." (show graphic)

**IN12A4>>** "CookED means something that ALREADY happened in the past and is finished....

# **IN12A5>>** Alex cookED soup yesterday." (show graphic)

Instruction: IN9A >>"Let's see if you can find all the words that end with...."

Untimed: UT>> "Take all the time you need"

Timed: TIMED10>>" "You have 10 seconds on the clock. TIMED20>>" "You have 20

seconds on the clock

TRY2 "Try to find all the words before the time runs out."

On correct response: display karloon's hat inside box. In last box of maze, display hat with flower.

On correct response: OH>> "oh-oh!" or OPS>>"oops"..... TRY>> Let's try another one."

On completion of maze: Play all target words in maze.

On failure complete maze within time interval: TU>> "Time's up. Let's try another one."

JMW: cONTROL for foils?

Word List:

(new words in bold)

(a) NEW WORDS IN BOLD CAPS 10-21-99

Plural 's' /s/: cats, mats, pots, cups, pups, lips, caps, maps,

Verb 's' /s/: hits, rips, pats, sips, dips, dips, sits,

Plural 's' /z/: cabs, tubs, subs, lads, beds, bags, hams, chins, cars, jars, BIBS

Verb 's' /z/: rubs, bids, HUGS, DIGS, TUGS, RUNS, BEGS

Plural 'es' /ez/: dishes, wishes, lashes, fishes, bushes, dashes,

Verb 'es' /ez/: washes, rushes, mashes, hushes, rashes, pushes, riches

'ed' /t/ wished, rushed, dashed, washed, fished, mashed, pushed

'ing' /ing/ washing, hiding, rushing, wishing, pushing, dashing, fishing, mashing

| <u>Task (12)</u> :<br># <u>Trials</u> | A-Play<br>Score  | <u>.</u> | V-Displ | ay Visua | l Cue  | Time Allowed |
|---------------------------------------|------------------|----------|---------|----------|--------|--------------|
| 1-ID morpheme                         | yes <u>score</u> | no       | n       | ı/a      | unlim  | iited        |
| 2-ID morpheme<br>%                    | yes              | no       | 'n      | /a       | 20 sec | onds         |
| 3-ID morpheme<br>%                    | yes              | no       | n       | /a       | 10 sec | onds         |
| 4-ID morpheme<br>%                    | yes              | yes      | у       | es       | unlim  | ited         |
| 5-ID morpheme<br>%                    | yes              | yes      | y       | es       | 20 sec | onds         |
| 6-ID morpheme<br>%                    | yes              | yes      | у       | es       | 10 sec | onds         |
| 7-ID morpheme<br>%                    | no               | yes      | y       | es       | unlim  | ited         |
| 8-ID morpheme<br>%                    | no               | yes      | y.      | es       | 20 sec | onds         |
| 9-ID morpheme<br>%                    | no               | yes      | y       | es       | 10 sec | onds         |
| 10-ID morpheme                        | no               | yes      | n       |          | unlim  | ited         |
| 11-ID morpheme %                      | no               | yes      | n       | o        | 20 sec | onds         |
| 12-ID morpheme<br>%                   | no               | yes      | n       | 0        | 10 sec | onds         |

# (FORMER TASK 10)

TASK 13: WORD RECOGNITION, DECODING & READING FLUENCY: NONSENSE WORDS CONTAINING SHORT VOWELS, CONSONANTS AND CONSONANT DIGRAPHS (15)

<u>Learning Objective</u>: Following visual+auditory, visual-only or auditory-only visual-only presentation of a target word, the student will identify the same word in a series of



words auditorily or visually presented at a rate of 30 wpm, 45 wpm and 60 wpm. The visual display of the target word will or will not remain on screen to facilitate performance.

Criteria: 4/2

**Activity Module 2** 

Visual + auditory presentation of target word with Auditory Series:

HELLO>>"Hi boys & girls.

TWS>>This word says ... 'the'. 'maf'

**HEAR>>**Click on the mouse when you hear this word.

GO>> Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>> "We missed that one." OR WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Display graphic for wrong response in response box. HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, ATTN>> "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Visual + auditory presentation of target word with Visual Series:

HELLO>>"Hi boys & girls. \

TWS>>This word says 'maf'.

SAME>> Click on the mouse when you see the same word on one of the balloons. GO>> Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to WOOPS>> "Woops, missed it."

Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Display graphic for wrong response in response box. HELLO>>"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, ATTN>> "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Visual presentation of target word with Visual Series:

HELLO>>"Hi boys & girls. (Show target word).

TARGET>> Click on the mouse when you see this word on one of the balloons.

GO>> Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval:MISS>> "We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Display graphic for wrong response in response box.HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds,ATTN>"Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Auditory presentation of target word with Visual Series:

HELLO>>"Hi boys & girls.

SEE>> Click on the mouse when you see the word 'maf'

BALLOON>>on one of the balloons.

GO>>Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word

On failure to respond within time interval: MISS>>"We missed that one." WOOPS>>
"Woops, missed it." Repeat and flash word. Display graphic in response box.
On failure to respond more than 2x in a row: Display graphic for wrong response in response box.HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds,ATTN>> "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

#### Words added 10-20-99

#### 63. WORD LIST

wat, zat, yat, ADD: nat ot, zot, chot ADD: vot ug, gug, shug chun, mun, yun ADD: kun

op, vop, kop-ADD: dop en, shen, chen ADD: nen ag, vag, kag ig, shig, lig ip, mip, vip kad, nad, rad fam, cham, nam ADD: zam zan, yan, han ap, kap, bap eg, neg, teg et, fet, zet hed, ched, ded ADD thed tid, wid, nid yim, sim, pim lin, rin, zin dit, yit, rit ob, nob, wob od, wod, lod og, zog, shog ub, kub, mub ADD wub ut, mut, chut ADD thut ar, sar, dar ab, mab, sab um, fum, wum ug, wug, nug ath, nath, fath ish, pish, nish ush, nush, wush uch, nuch, vuch kash, zash, thash ADD tash tash, yash, thash

| <u>Task (13)</u> : | Present<br>Target | <u>Hold</u>   | Prese         |             |
|--------------------|-------------------|---------------|---------------|-------------|
| #Trials Score      | Target            | <u>Target</u> | <u>Series</u> | <u>Rate</u> |
|                    |                   |               |               |             |
| 1-Recognize word   | visual + auditory | yes           | auditory      | 60 wpm      |
| 2-Recognize word   | visual + auditory | yes           | auditory      | 45 wpm      |
| 3-Recognize word   | visual + auditory | yes           | auditory      | 30 wpm      |
| · '                | · · ·             |               | •             |             |
|                    | visual + auditory | yes           | visual        | 60 wpm      |
| 5-Recognize word   | <i>J</i>          | yes           | visual        | 45 wpm      |
| 6-Recognize word   | visual + auditory | yes           | visual        | 30 wpm      |

| 7-Recognize word  | -        | no  | visual | 60 wpm |
|-------------------|----------|-----|--------|--------|
| 8-Recognize word  |          | no  | visual | 45 wpm |
| 9-Recognize word  |          | no  | visual | 30 wpm |
| 10-Recognize word | visual   | no  | visual | 60 wpm |
| 11-Recognize word |          | no  | visual | 45 wpm |
| 12-Recognize word |          | no  | visual | 30 wpm |
| 13-Decode word    | auditory | n/a | visual | 60 wpm |
| 14-Decode word    | auditory | n/a | visual | 45 wpm |
| 15-Decode word    | auditory | n/a | visual | 30 wpm |

## (FORMER TASK 11)

TASK 14: WORD RECOGNITION, DECODING & READING FLUENCY: WORDS CONTAINING WORD-FINAL PLURALITY MORPHEMES (21)

<u>Learning Objective</u>: Following visual+auditory, visual-only or auditory-only visual-only presentation of a target word, the student will identify the same word in a series of words auditorily or visually presented at a rate of 30 wpm, 45 wpm and 60 wpm. The visual display of the target word will or will not remain on screen and will or will not include a visual cue to facilitate performance.

Activity Module 2

Criteria: 4/2

Begin round with instructions.

HELLO>> "Hi boys & girls.

WORDS>> "Let's talk about the ends of words.

TELLS>> " The end of a word tells you something about what the word means."

IN11A>> For example, ... "cat"

IN11A1>> means ... "one cat" (SHOW PICTURE OF CAT)---

IN11A2>>"catS" ....

IN11A3>> "means more than one .....cat" (SHOW PICTURE OF CATS)

IN11B>>For example, "dish"

IN11B1>>means "one dish" (SHOW PICTURE OFDISH) ---

IN11B2>>"dishES"

IN11B3>>means "more than one dish" (SHOW PICTURE OF DISHES)

Visual + auditory presentation of target word with Auditory Series:

TWE>>"This word ends with ...

S>>...s'

AS>>...and says.... "cats".

IN11C>> Click when you hear this word.

GO>> Get ready, set....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>> "We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box. On failure to respond more than 2x in a row: Display graphic for wrong response in response box. HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, ATTN>> "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Visual + auditory presentation of target word with Visual Series:

TWE>>"This words ends with

S>>...'s'

AS>>and says cats".

SAME>> Click when you see the same word on one of the balloons.

GO>>Get ready, set....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>>"We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Display graphic for wrong response in response box. **HELLO?>>**"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, **ATTN>>** "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Visual presentation of target word with Visual Series:

(Show target word). **IN11D>>**Click on the mouse when you see this word that ends with ...'s'

**BALLOON>>** on one of the balloons.

GO>> Get ready, set....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>>"We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box.



On failure to respond more than 2x in a row: Display graphic for wrong response in response box. **HELLO?>>**"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, **ATTN>>** "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Auditory presentation of target word with Visual Series: IN11E>> "Click on the mouse when you see the word ...'cats' BALLOON>>... on one of the balloons.

Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word

On failure to respond within time interval: MISS>> "We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box. On failure to respond more than 2x in a row: Display graphic for wrong response in response box. HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, ATTN>> "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Stimuli:

/s/

cat, cats

dog, dogs

mat, mats

pot, pots

pup, pups

lip, lips

(a) bug, bugs

log, logs

kid, kids

lid, lids mug, mugs cop, cops ball, balls wall, walls map, maps gun, guns

# dish, dishes

bush, bushes lash, lashes dash, dashes sash, sashes wish, wishes

| •                    | Present            | <u>Hold</u>                           | Prese        | nt |
|----------------------|--------------------|---------------------------------------|--------------|----|
| <u>Task (14)</u> :   | <u>Target</u>      | <b>TargetSeries</b>                   | Rate #Tr     |    |
| Score                |                    |                                       | <del>-</del> |    |
| 1-Recognize morpheme | visual + auditory  | yes                                   | auditory     | 60 |
| wpm                  |                    |                                       |              |    |
| 2-Recognize morpheme | visual + auditory  | yes                                   | auditory     | 45 |
| wpm                  |                    |                                       |              |    |
| 3-Recognize morpheme | visual + auditory  | yes                                   | auditory     | 30 |
| wpm                  |                    |                                       |              |    |
|                      |                    |                                       | -            |    |
| 4-Recognize morpheme | visual + auditory  | yes                                   | visual       | 60 |
| wpm                  |                    |                                       | ,            |    |
| 5-Recognize morpheme | visual + auditory  | yes                                   | visual       | 45 |
| wpm                  |                    |                                       |              |    |
| 6-Recognize morpheme | visual + auditory  | yes                                   | visual       | 30 |
| wpm                  |                    |                                       |              |    |
| 7 Pagamina mambana   |                    |                                       |              |    |
| 7-Recognize morpheme | visual + auditory  | no                                    | visual       | 60 |
| wpm                  |                    | · · · · · · · · · · · · · · · · · · · |              |    |
| 8-Recognize morpheme | visual + auditory  | no                                    | visual       | 45 |
| wpm                  | rianal 4 andibarra |                                       |              | 20 |
| •                    | visual + auditory  | no                                    | visual       | 30 |
| wpm                  |                    |                                       |              |    |

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| 10-Recognize morpheme cue 60 wpm | visual w/ cue |      | yes  |        | visual w/ |
|----------------------------------|---------------|------|------|--------|-----------|
| 11-Recognize morpheme cue 45 wpm | visual w/ cue |      | yes  |        | visual w/ |
| 12-Recognize morpheme cue 30 wpm | visual w/ cue |      | yes  |        | visual w/ |
| 13-Recognize morpheme cue 60 wpm | visual w/ cue |      | no   |        | visual w/ |
| 14-Recognize morpheme cue 45 wpm | visual w/ cue |      | no   |        | visual w/ |
| 15-Recognize morpheme cue 30 wpm | visual w/ cue |      | no . | •      | visual w/ |
| 16-Recognize morpheme wpm        | visual        | no   |      | visual | 60        |
| 17-Recognize morpheme wpm        | visual        | no . |      | visual | 45        |
| 18-Recognize morpheme wpm        | visual        | no   |      | visual | 30        |
| 19-Decode morpheme<br>60 wpm     | auditory      |      | n/a  |        | isual .   |
| 20-Decode morpheme<br>45 wpm     | auditory      | ·    | n/a  | 7      | isual     |
| 21-Decode morpheme<br>30 wpm     | auditory      |      | n/a  |        | isual     |



TASK 15: WORD RECOGNITION, DECODING & READING FLUENCY: WORDS CONTAINING WORD-FINAL VERB TENSE MORPHEMES (21)

<u>Learning Objective</u>: Following visual+auditory, visual-only or auditory-only visual-only presentation of a target word, the student will identify the same word in a series of words auditorily or visually presented at a rate of 30 wpm, 45 wpm and 60 wpm. The visual display of the target word will or will not remain on screen and will or will not include a visual cue to facilitate performance.

Criteria: 4/2

Activity Module 2

Begin round with instructions.

**HELLO>>** "Hi boys & girls.

WORDS>> Let's talk about the ends of words.

**TELLS>>** The end of a word tells you something about what the word means." For example,

IN12A >>"CookS ...means SOMETHING IS HAPPENING right now....

**IN12A1>>** Alex cookS right now." (show graphic)

IN12A2 >> "CookING means SOMETHING IS HAPPENING right now....

**IN12A3>>**Alex is cookING right now." (show graphic)

**IN12A4>>** "CookED means something that ALREADY happened in the past and is finished....

IN12A5>> Alex cookED soup yesterday." (show graphic)

Visual + auditory presentation of target word with Auditory Series:

ING>> "This word ends with 'ing'

AS>> and says "sitting".

IN12B>>Click when you hear this word.

GO>>Get, set... ready....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.



On failure to respond within time interval: MISS>>"We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box. On failure to respond more than 2x in a row: Display graphic for wrong response in response box. HELLO?>>"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, ATTN>> "Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Visual + auditory presentation of target word with Visual Series:

ED>> This word ends with 'ed'

AS>> and says "ripped".

SAME>> Click when you see the same word on one of the balloons.

GO>>Get ready, set....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>> "We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box. On failure to respond more than 2x in a row: Display graphic for wrong response in response box.HELLO?>> "Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds, ATTN>>"Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Visual presentation of target word with Visual Series: (Show target word).

IN2C>> Click on the mouse when you see this word that ends with 'ed'

**BALLOON**>>on one of the balloons.

GO>>Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word.

On failure to respond within time interval: MISS>>"We missed that one." WOOPS>> "Woops, missed it." Repeat and flash word. Display graphic in response box. On failure to respond more than 2x in a row: Display graphic for wrong response in response box.HELLO?>> "Hello? Click on me if you want to keep playing." If no

response from user, discard all 3 NRs and end round of play. If user responds, ATTN>>"Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Auditory presentation of target word with Visual Series:

SEE>> Click when you see the word "sits"

**BALLOON>>** on one of the balloons.

GO>>Get ready, set.....Go!"

On correct response: Shoot dart & burst balloon. Display graphic in response box. Repeat and flash the word.

On incorrect response: Shoot dart but miss balloon. Display graphic in response box. Repeat and flash the word

On failure to respond within time interval: MISS>>"We missed that one." WOOPS>>
"Woops, missed it." Repeat and flash word. Display graphic in response box.

On failure to respond more than 2x in a row: Display graphic for wrong response in response box. HELLO?>>"Hello? Click on me if you want to keep playing." If no response from user, discard all 3 NRs and end round of play. If user responds,

ATTN>>"Pay attention now." Continue round of play. Else, discard data for all 3 NRs and end round of play.

Stimuli:

rip, rips

hop, hops mop, mops

(b) tap, taps

64. pat, pats

hug, hugs

tag, tags

fit, fits

rob, robs

nap, naps

run, runs

rub, rubs

beg, begs

dip, dips

hum, hums

65. Push, pushing, pushed, pushes

Fish, fishing, fished, fishes Wash, washing, washed, washes Mash, mashing, mashed, mashes 66. Dash, dashing, dashed, dashes

Rush, rushing, rushes, rushes Gush, gushing, gushes, gushed Wish, wishing, wishes, wished

|  | Present           | <u>Hold</u>   | Prese         | nt   |
|--|-------------------|---------------|---------------|------|
| <u>Task (15)</u> :                                   | <u>Target</u>     | <u>Target</u> | <u>Series</u> | Rate |
| # <u>Trials Score</u><br>1-Recognize morpheme<br>wpm | visual + auditory | yes           | auditory      | 60   |
| 2-Recognize morpheme wpm                             | visual + auditory | yes           | auditory      | 45   |
| 3-Recognize morpheme wpm                             | visual + auditory | yes           | auditory      | 30   |
| 4-Recognize morpheme wpm                             | visual + auditory | yes           | visual        | 60   |
| 5-Recognize morpheme wpm                             | visual + auditory | yes           | visual        | 45   |
| 6-Recognize morpheme wpm                             | visual + auditory | yes           | visual        | 30   |
| 7-Recognize morpheme wpm                             | visual + auditory | no            | visual        | 60   |
| 8-Recognize morpheme wpm                             | visual + auditory | no            | visual        | 45   |
| -  | visual + auditory | no            | visual        | 30   |
| 10-Recognize morpheme cue 60 wpm                     | visual w/ cue     | yes           | visual        | lw/  |
| 11-Recognize morpheme cue 45 wpm                     | visual w/ cue     | yes           | visual        | l w/ |
| 12-Recognize morpheme cue 30 wpm                     | visual w/ cue     | yes           | visual        | l w/ |
| 13-Recognize morpheme cue 60 wpm                     | visual w/ cue     | no            | visua         | lw/  |

| <b>t</b> .                       |               |      |        |        |
|----------------------------------|---------------|------|--------|--------|
| 14-Recognize morpheme cue 45 wpm | visual w/ cue | no   | visu   | ıal w/ |
| 15-Recognize morpheme cue 30 wpm | visual w/ cue | no   | visu   | ıal w/ |
| 16-Recognize morpheme wpm        | visual        | no   | visual | 60     |
| 17-Recognize morpheme wpm        | visual        | no   | visual | 45     |
| 18-Recognize morpheme wpm        | visual        | no · | visual | 30     |
| 19-Decode morpheme<br>60 wpm     | auditory      | n/a  | visu   | al     |
| 20-Decode morpheme<br>45 wpm     | auditory      | n/a  | visual |        |
| 21-Decode morpheme<br>30 wpm     | auditory      | n/a  | visu   | al     |